



► Catalogue 2010-2012

OUR COMMITMENT MAKES THE DIFFERENCE ►

BACO[®]

Baco fully committed into the future

A Key player on the market for control and signalling units, cam switches and switch disconnectors, Baco is recognized for its professional expertise and compliance with safety standards. Baco is committed to a quality charter based on the quality and reliability of its numerous and flexible solutions.

CONTROL AND SIGNALLING UNITS

► **A wide range**

- Excellent modularity for a large choice of combinations with a minimum number of items
- Customised products to meet the most specific needs



CAM SWITCHES

► **A reference on the market**

- A worldwide reputation of know-how for more than 50 years
- A range from 10 to 250 A (panel mount or enclosed)
- More than 50,000 different electrical diagrams available
- Numerous specific functions and special engravings



SWITCH DISCONNECTORS

► **Great flexibility in use**

- Compactness
- Infinite number of combinations for customised applications
- Reversible terminal blocks for front or rear mounting saving valuable time during installation



THE BACO QUALITY REQUIREMENT

Our products have a 10-year guarantee and are exceptionally reliable, that is why they are ideal for integration into systems that do not tolerate any failure (military, aeronautical, space exploration, medical research equipment, etc.). Moreover, BACO product ranges offer ingenious and reliable solutions that are fast and easy to implement.

That's why Baco is now providing a 10-year guarantee on all products. This guarantee strengthens the assurance of having a solid and committed brand by your side. With Baco, you can be sure that you have made the right choice.



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311 ► CROSS REFERENCE LIST PREVIOUS RANGE/NEW RANGE

Heads, blocks and connection...

designed to last!



LOCKING
RING

► HEAD

"Cleverly designed to be both ergonomic and clearly visible"

- Insulating material ensures electrical safety
- Integrated anti-rotation tab
- Legend holder frame keeps IP 66 protection
- Optimised ergonomic design
- Choice of bezels: black or chrome plastic
- Innovative and varied functions
- Optimised dimensions

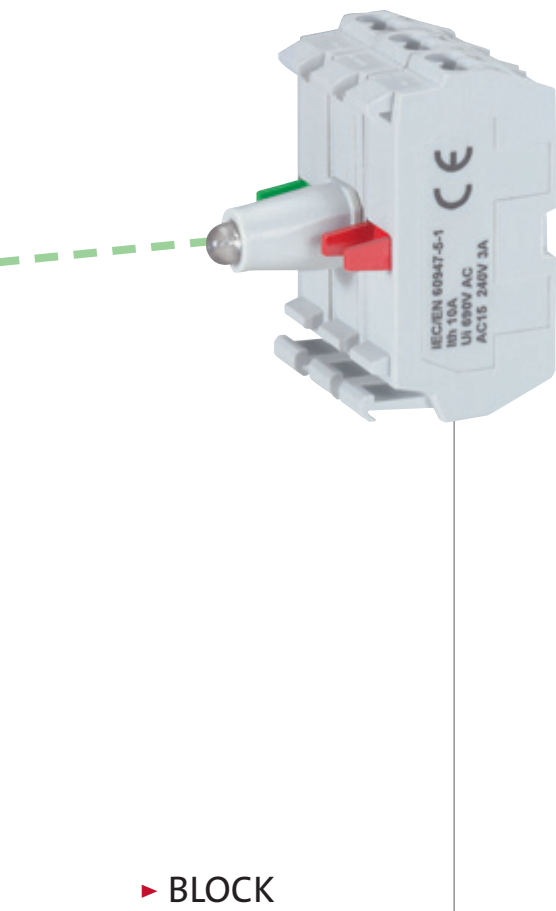
See pages 21 to 46

► CLIP

*"Flexibility of configuration: 1, 3 or 5 position clips
Contact blocks can be assembled in any order..."*

- Enhanced rigidity
- For 1, 3 and 5 blocks
- Blocks are simply snapped onto the clip

See pages 65



► **BLOCK**

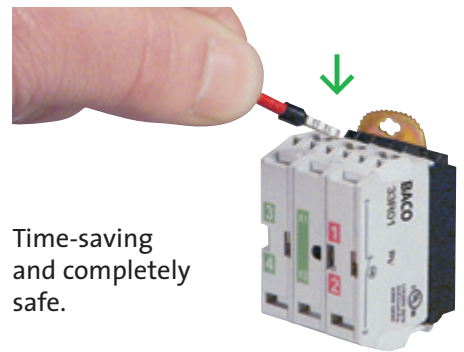
“Imaginatively designed to be safe, robust and durable”

- Securely fixed by clipping into place
- Stackable
- Grade protection: IP20 as “finger safe” on screw and plug-in terminals
- Electrical insulation
- LED blocks combining long life and economy (100,000 hours)
- Corrosion resistant to some chemicals and sea air, etc
- Conform to standard EN/IEC 60947-5-1
- Compliant with RoHS European directive (concerning restriction of hazardous substances)

See pages 48 to 64

► **CONNECTION**

PLUG-IN TERMINALS - New

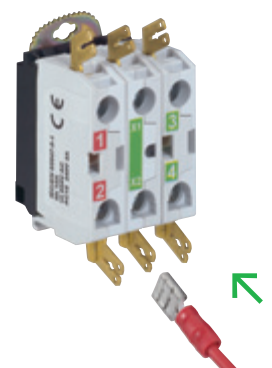


Time-saving and completely safe.

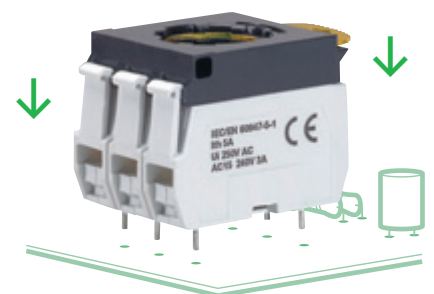
SCREW TERMINALS



FASTON TERMINALS



PIN STYLE TERMINALS (FOR PCB)



New heads...

robust and clearly marked!



► ADVANTAGES

We're full of innovative ideas from listening to your needs, and watching you work

- On all heads, rotation is prevented by a tab which retracts when not required
- Insulating material ensures electrical safety
- Design and shape help avoid build-up of dirt and make the switch easy to clean
- EN 418/ISO 13850 illuminated mushroom head with yellow collar for side-on visual indication
- Optimised ergonomic design
- Innovative functions: illuminated emergency stop mushroom head, etc
- Optimised dimensions: low-profile heads

► MARKING WITH LEGENDS

- Frame can be turned to 4 positions (0° ; 90° ; 180° and 270°)
- Special legend plate for double touch
- Legend plates: choice between 5 colours, blank or pre-engraved

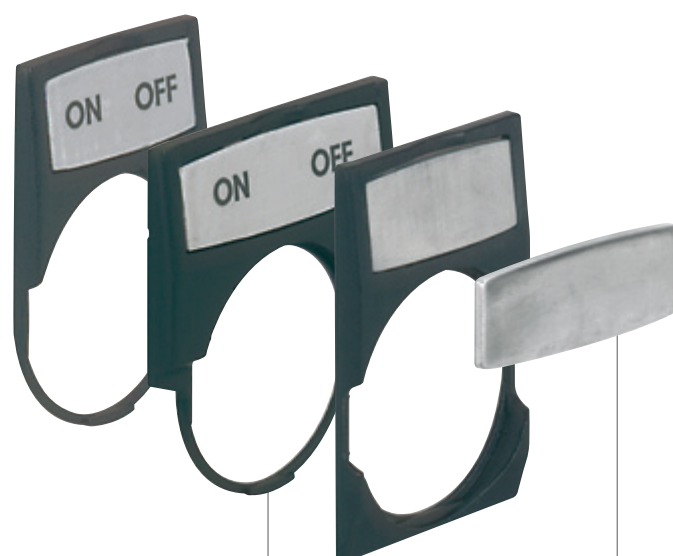


Bezels

Choice between:
black or chrome

Engraving

Button plate can be mounted in
4 positions (0° ; 90° ; 180° and 270°)



Frame

round or square shape,
30 or 40 mm wide

Legend plate

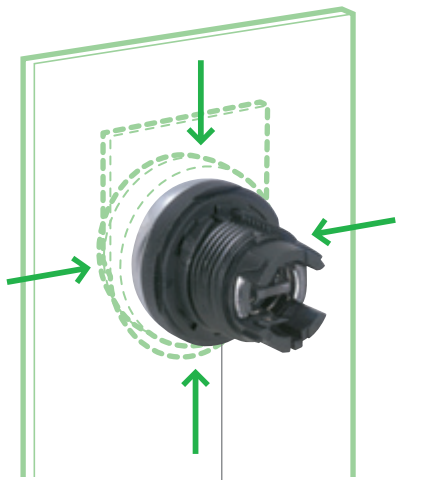
can be clipped into
place after installation

► READY-ASSEMBLED CONTROL STATION

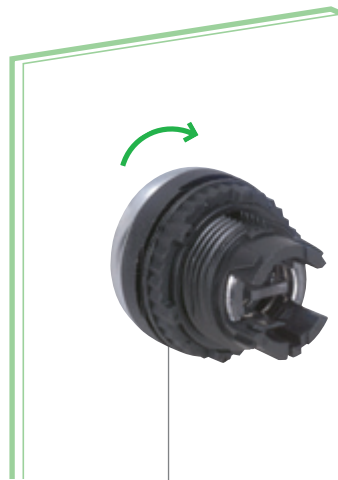
- Innovative design
 - 1, 2 or 3 buttons
- See page 82



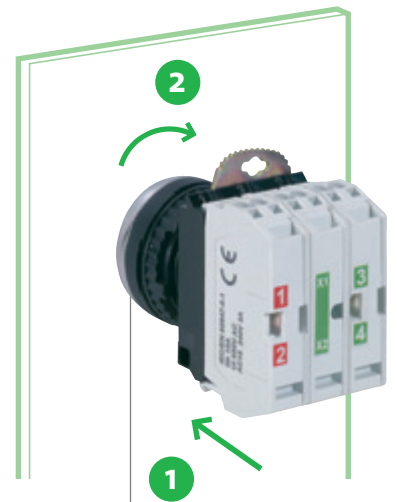
Simplicity, speed, choice!



Auto-grip ring
head held firmly
in the drilling hole
during assembly



Locking ring
to fix the head

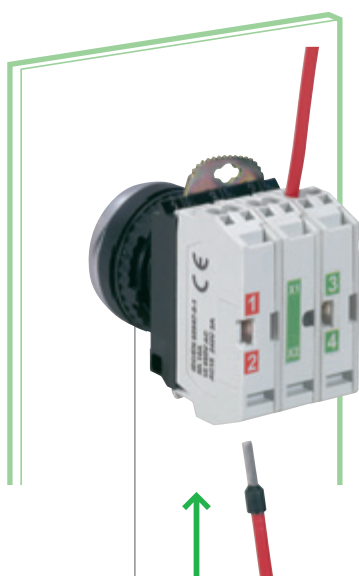


Fixing
Locate block onto head
and lock in place with
rotating metallic latch

► ADVANTAGES

Our objective is to simplify and shorten time of installation:

- Head held firmly in place by auto-grip ring, allows single-hand mounting
- Foolproof method of positioning the block sub-assembly correctly on the head
- Rotating metallic latch easily accessible with a screwdriver where space is limited



Quick connection

No tool required for wires with ferrules.
New plug-in terminals

► **CONFIGURATIONS**

“A range designed to meet adapt to all requirements and all situations”

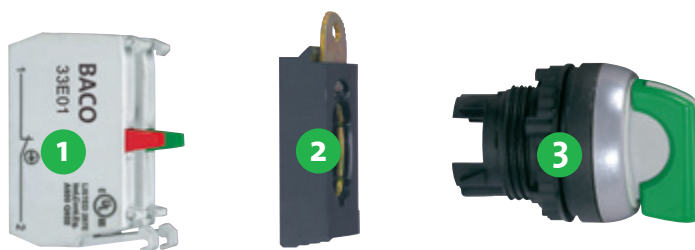
COMPLETE UNITS

- Control and signalling units are supplied ready for use with head and pre-assembled block/clip
- A single product code provides a solution for the most common needs



SEPARATE UNITS

- Maximum flexibility
- For numerous possible solutions




CUSTOMISED SOLUTIONS (request form p. 79)

- Custom assemblies to suit your needs
- The Baco response for specific requirements: pre-assembly, aesthetic design, engraving, etc



Complete units: Push-buttons ø 22

IP 66
 Complete units consisting of:
 - head
 - clip and screw electrical blocks assembled
 Plastic chrome bezel - Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

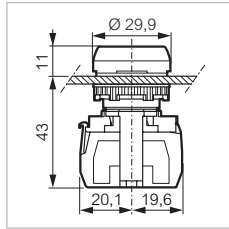
 Characteristics (p. 94)
 Cross reference list (p. 311)

► SPRING RETURN - NON ILLUMINATED

FLUSH Cat. No.



L21AA02A



Without engraving

● Red	NC
● Green	NO
● Black	NO
● Yellow	NO
● Blue	NO

L21AA01B
L21AA02A
L21AA03A
L21AA04C
L21AA06A

With engraving

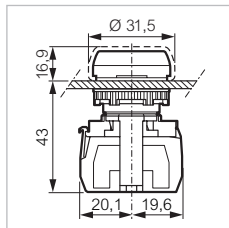
⓪ Red	NC
⓪ Green	NO

L21AA81B
L21AA82B

FLUSH Reinforced degree of protection: IP 67



L22AF01A



Supplied with opaque shroud

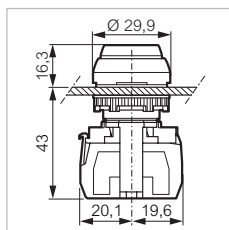
● Red	NC
● Green	NO
● Black	NO

L22AF01A
L22AF02A
L22AF03A

PROJECTING



L21AB01A



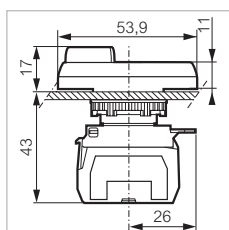
● Red	NC
-------	----

L21AB01A

FLUSH-PROJECTING Double touch



L61QB21A




⓪ Green - Flush	NO
⓪ Red - Projecting	NC

L61QB21A

Complete units: Selector switches \varnothing 22

IP 66
 Complete units consisting of:
 - head
 - clip and screw electrical blocks assembled
 Plastic chrome bezel - Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► SELECTOR SWITCHES - NON ILLUMINATED

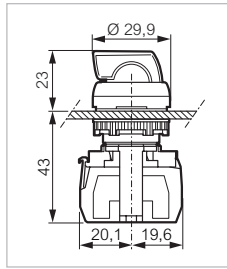
WITH HANDLE

2 positions

Cat. No.



L21KE03B



Stay-put positions - 90°

● Black

NO



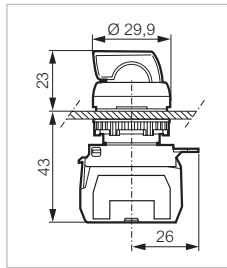
L21KE03B

WITH HANDLE

3 positions



L21MA03A



Stay-put positions - 45°

● Black

2 NO



L21MA03A

Spring return to 0 - 45°

● Black

2 NO



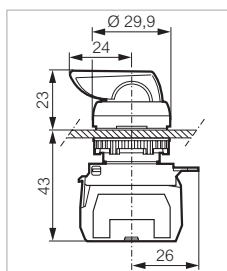
L21MD03A

WITH LONG HANDLE

3 positions



L21MR03A



Stay-put positions - 45°

● Black

2 NO



L21MR03A

Spring return to 0 - 45°

● Black

2 NO



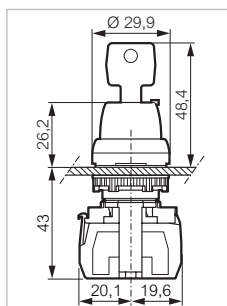
L21MU03B

WITH KEY

2 positions



L21LA00G



Supplied with 2 keys profile n°455

Stay-put positions - 45°

Key free in position 0

NO




L21LA00G

Catalogue No. in bold: normally in stock at distribution outlets

Complete units: Mushroom heads \varnothing 22

IP 66
 Complete units consisting of:
 - head
 - clip and screw electrical blocks assembled
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► MUSHROOM HEADS - NON ILLUMINATED

\varnothing 40 - SPRING RETURN

Push

Cat. No.



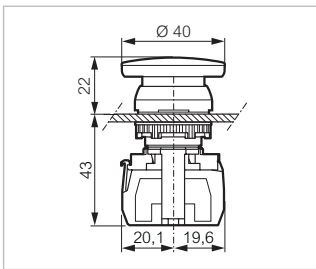
L21AD01C

Plastic chrome bezel
 Black bezel on request (form p. 79)

● Red

NC

L21AD01C



\varnothing 40 - STAY-PUT

Push-turn to reset

Cat. No.



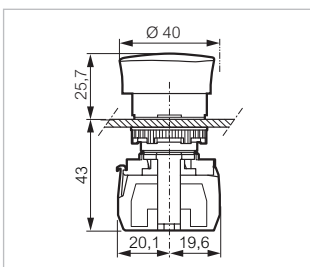
L22ED01D

Black bezel

● Red


NC

L22ED01D



Complete units: Mushroom heads \varnothing 22

IP 66
 Complete units consisting of:
 - head
 - clip and screw electrical blocks assembled
 Plastic black bezel
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► MUSHROOM HEADS - NON ILLUMINATED (CONTINUED)

\varnothing 40 - STAY-PUT

Push-pull to reset

Cat. No.

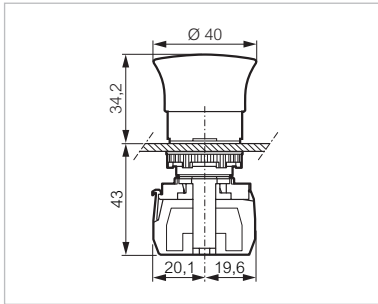


● Red

NC

L22DD01A

L22DD01A



\varnothing 40 - STAY-PUT

Key to reset

Cat. No.



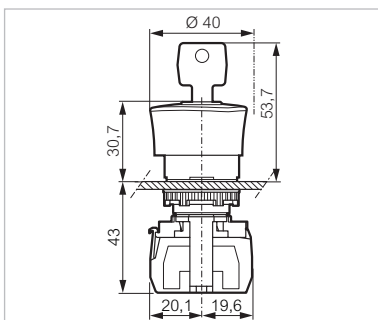
Supplied with 2 keys profile n°455

● Red

NC

L22GM01E


L22GM01E



Catalogue No. in bold: normally in stock at distribution outlets

Complete units: Mushroom heads \varnothing 22

IP 66
 Complete units consisting of:
 - head
 - clip and screw electrical blocks assembled
 Plastic black bezel
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

\varnothing 40 EN 418/ISO 13850 - STAY-PUT

Push-turn to reset

Cat. No.



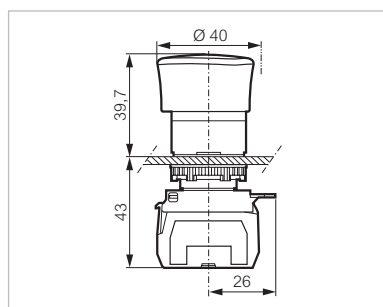
Head position visible from the side with yellow collar
 Compliant with the requirements of emergency stop:
 IEC 60947-5-5 /EN 418/ISO 13850

● Red

NO + NC

L22ER01D

L22ER01D



\varnothing 40 EN 418/ISO 13850 - STAY-PUT

Push-pull to reset

Cat. No.



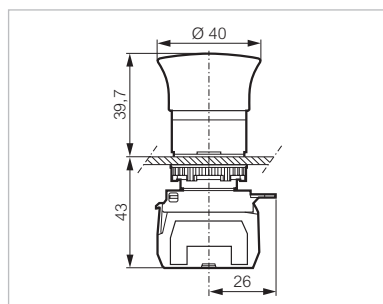
Head position visible from the side with yellow collar
 Compliant with the requirements of emergency stop:
 IEC 60947-5-5 /EN 418/ISO 13850

● Red

NO + NC


L22DR01B

L22DR01B



Complete units: Mushroom heads \varnothing 22

IP 66
 Complete units consisting of:
 - head
 - clip and screw electrical blocks assembled
 Plastic black bezel
 Conform to IEC 60947-5-1

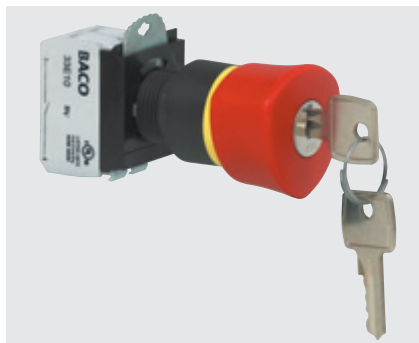
 Characteristics (p. 94)
 Cross reference list (p. 311)

► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

\varnothing 40 EN 418/ISO 13850 - STAY-PUT

Key to reset

Cat. No.



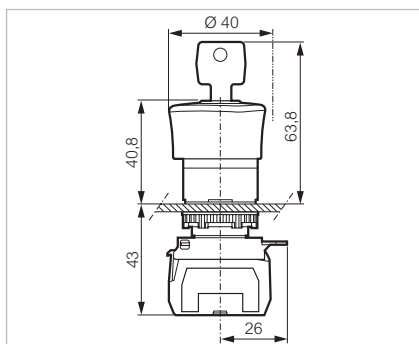
L22GR01B

Double position indicator: head and collar
 Compliant with the requirements of emergency stop:
 IEC 60947-5-5 / EN 418/ISO 13850
 Supplied with 2 keys profile n°455

● Red

NO + NC

L22GR01B



\varnothing 54 EN 418/ISO 13850 - STAY-PUT

Push-pull to reset with flag indicator

Cat. No.



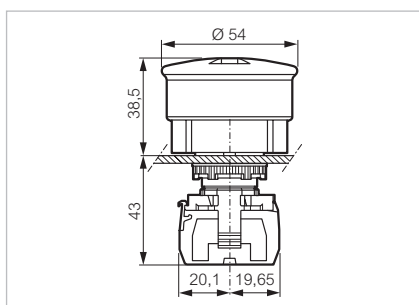
L22DU01G

Double position indicator: head and collar
 Compliant with the requirements of emergency stop:
 IEC 60947-5-5 / EN 418
 Flag indicator: Engraving STOP and I

● Red


NC

L22DU01G



Complete units: Pushbuttons \varnothing 22

IP 66
 Complete units consisting of:
 - head
 - clip and screw electrical blocks assembled
 Plastic chrome bezel - Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► SPRING RETURN - ILLUMINATED

FLUSH

Cat. No.



L21AH20L

LED blocks

24V

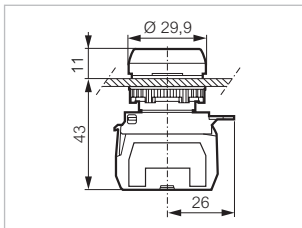
● Red	NO+NC	L21AH10L
● Green	NO+NC	L21AH20L
● Yellow	NO+NC	L21AH40L
○ White	NO+NC	L21AH50L
● Blue	NO+NC	L21AH60L

130 V

● Red	NO+NC	L21AH10M
● Green	NO+NC	L21AH20M

230 V

● Red	NO+NC	L21AH10H
● Green	NO+NC	L21AH20H



TWIN TOUCH - FLUSH-PROJECTING



L61QK21H

LED blocks
 Central part illuminated

24 V

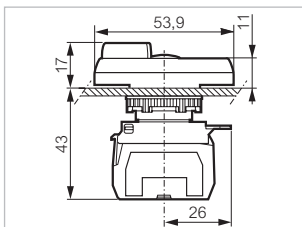
● Green	NO	L61QK21L
● Red	NC	

130 V

● Green	NO	L61QK21M
● Red	NC	


230 V

● Green	NO	L61QK21H
● Red	NC	



Complete units: Selector switches \varnothing 22

IP 66
 Complete units consisting of:
 - head
 - clip and screw electrical blocks assembled
 Plastic chrome bezel - Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

▶ SELECTOR SWITCHES - ILLUMINATED

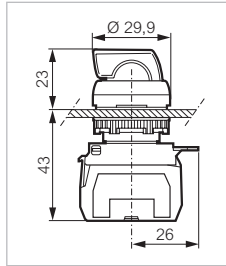
WITH HANDLE

2 positions

Cat. No.



L21KG10C



LED blocks

Stay-put positions - 45°
 24 V

- Red
- Green
- Black


NO + NC
 NO + NC
 NO + NC



L21KG10C
L21KG20E
L21KG30B

Complete units: Pilot lights \varnothing 22

IP 66
 Complete units consisting of:
 - head
 - clip and screw electrical blocks assembled
 Conform to IEC 60947-5-1

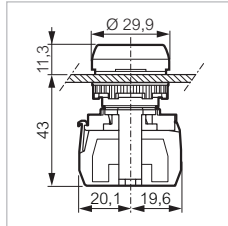
 Characteristics (p. 94)
 Cross reference list (p. 311)

▶ PILOT LIGHTS

Cat. No.



L20SE20L



LED blocks

24 V

- Red
- Green
- Yellow
- White
- Blue

L20SE10L
L20SE20L
L20SE40L
L20SE50L
L20SE60L

130 V

- Red
- Green
- Yellow
- White
- Blue

L20SE10M
L20SE20M
L20SE40M
L20SE50M
L20SE60M

230V


- Red
- Green
- Yellow
- White
- Blue

L20SE10H
L20SE20H
L20SE40H
L20SE50H
L20SE60H

One-piece pilot lights (p. 45-46)

Separate units ø 22: Heads

IP 66
 To be combined with a clip and electrical blocks (p. 48)
 Equipped with a locking ring
 Plastic chrome bezel - Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

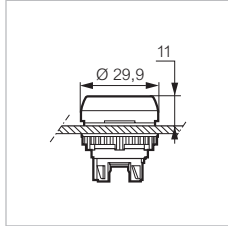
► PUSH-BUTTONS - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



L21AA02



Without engraving

- Red
- Green
- Black
- Yellow
- White
- Blue

- L21AA01**
- L21AA02**
- L21AA03**
- L21AA04**
- L21AA05**
- L21AA06**

With engraving

-  Red
-  Green
-  Black

- L21AA81**
- L21AA82**
- L21AA83**

On demand engraving (p. 79)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Black
- Yellow
- White
- Blue

- L21AA31□□□□
- L21AA32□□□□
- L21AA33□□□□
- L21AA34□□□□
- L21AA35□□□□
- L21AA36□□□□

(Other colours and engraving: fill in the form p. 79)

Without button plate

L21AA00

Button plates (see p. 74)



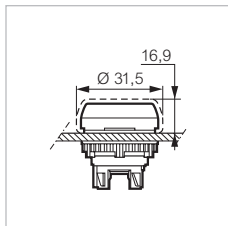
L21AA00

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



L22AF01



Supplied with shroud

Opaque

- Red
- Green
- Black

- L22AF01**
- L22AF02**
- L22AF03**


Transparent

- Yellow
- White
- Blue

- L22AG04
- L22AG05
- L22AG06

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip and electrical blocks (p. 48)
 Equipped with a locking ring
 Plastic chrome bezel - Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

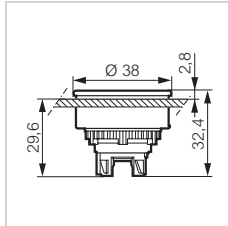
► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

SPRING RETURN - SUPER FLUSH

Cat. No.



L23AA02



Metallic chrome bezel
 Cut-out \varnothing 30

Without engraving

- Red
- Green
- Black
- Yellow
- White
- Blue

- L23AA01**
- L23AA02**
- L23AA03**
- L23AA04
- L23AA05
- L23AA06

With engraving

-  Red
-  Green

- L23AA81
- L23AA82

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Black
- Yellow
- White
- Blue

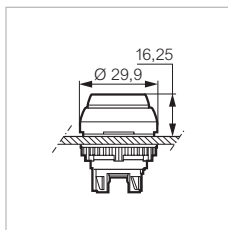
- L23AA31□□□□
- L23AA32□□□□
- L23AA33□□□□
- L23AA34□□□□
- L23AA35□□□□
- L23AA36□□□□

(Other colours and engraving: fill in the form p. 79)

SPRING RETURN - PROJECTING



L21AB01



- Red
- Green
- Black
- Yellow
- White
- Blue

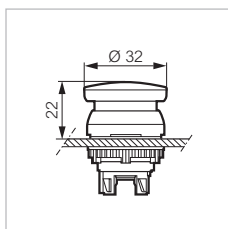
- L21AB01**
- L21AB02**
- L21AB03**
- L21AB04**
- L21AB05**
- L21AB06**

SPRING RETURN - MUSHROOM HEAD \varnothing 32

Push



L21AC03




- Red
- Green
- Black
- Yellow

- L21AC01**
- L21AC02**
- L21AC03**
- L21AC04

Catalogue No. in bold: normally in stock at distribution outlets

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip and electrical blocks (p. 48)
 Equipped with a locking ring
 Plastic chrome bezel - Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

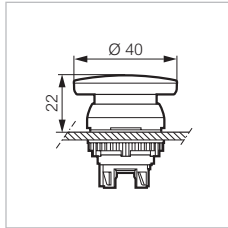
 Characteristics (p. 94)
 Cross reference list (p. 311)

► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

SPRING RETURN - MUSHROOM HEAD \varnothing 40

Push

Cat. No.



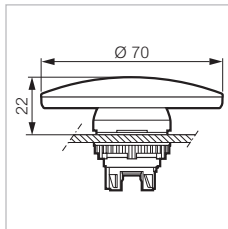
- Red
- Green
- Black
- Yellow

- L21AD01**
- L21AD02**
- L21AD03**
- L21AD04**

L21AD01

SPRING RETURN - MUSHROOM HEAD \varnothing 70

Push



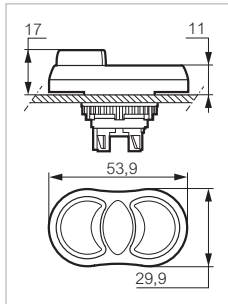
- Red
- Black

- L21AE01**
- L21AE03**

L21AE03

SPRING RETURN - FLUSH-PROJECTING

Double touch



- Green
- Red
- Green engraving START
- Red engraving STOP

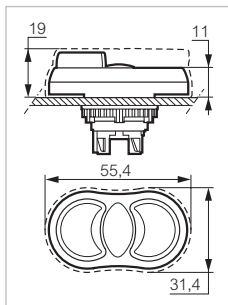
L61QB21

L61QB21B

L61QB21

SPRING RETURN - FLUSH-PROJECTING

Double touch - reinforced degree of protection: IP 67



Supplied with transparent shroud


- Green
- Red

L62QM21

L61QM21

Separate units ø 22: Heads

IP 66
 To be combined with a clip and electrical blocks (p. 48)
 Equipped with a locking ring
 Plastic chrome bezel - Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

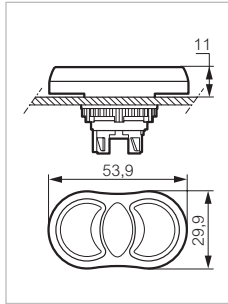
SPRING RETURN - FLUSH-FLUSH









Double touch

Cat. No.



L61QA21



-  Green
-  Red
-  Green engraving \triangleleft
-  Green engraving \triangleright
-  Green
-  Green
-  Black
-  Black

L61QA21

L61QA22

L61QA22K

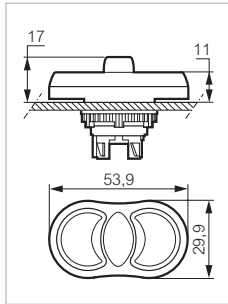
L61QA33C







SPRING RETURN - FLUSH-PROJECTING-FLUSH

Triple touch



L61BA22



-  Green
-  Red engraving STOP
-  Green
-  Green
-  Red engraving STOP
-  Green

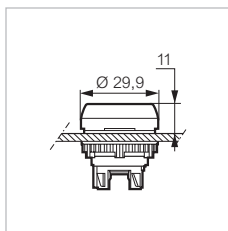
L61BA22

L61BA22B

STAY-PUT - FLUSH



L21CA01




-  Red
-  Green
-  Black
-  Yellow
-  White
-  Blue

L21CA01
L21CA02
L21CA03
L21CA04
L21CA05
L21CA06

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip and electrical blocks (p. 48)
 Equipped with a locking ring
 Plastic black bezel
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

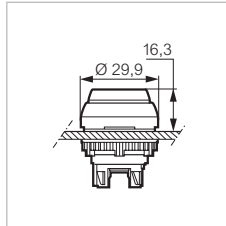
► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

STAY-PUT - PROJECTING

Cat. No.



L21CB02



Plastic chrome bezel
 Black bezel on request (form p. 79)

- Red
- Green
- Black
- Yellow
- White
- Blue

- L21CB01**
- L21CB02**
- L21CB03**
- L21CB04
- L21CB05
- L21CB06

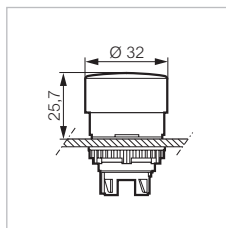
► MUSHROOM HEADS - NON ILLUMINATED

\varnothing 32 - STAY-PUT

Push-turn to reset



L22EC01



- Red
- Green
- Black
- Yellow

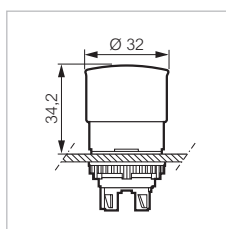
- L22EC01**
- L22EC02
- L22EC03**
- L22EC04

\varnothing 32 - STAY-PUT

Push-pull to reset



L22DC01



- Red

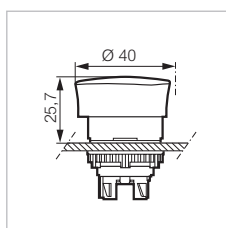
L22DC01

\varnothing 40 - STAY-PUT

Push-turn to reset



L22ED01



Without engraving

- Red
- Green
- Black
- Yellow

- L22ED01**
- L22ED02
- L22ED03**
- L22ED04


With engraving

- Red - engraving STOP - STOP - STOP

L22ED01B

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip and electrical blocks (p. 48)
 Equipped with a locking ring
 Plastic black bezel
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► MUSHROOM HEAD - NON ILLUMINATED (CONTINUED)

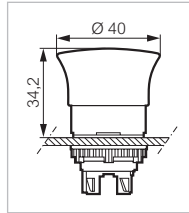
\varnothing 40 - STAY-PUT

Push-pull to reset

Cat. No.



L22DD01



- Red
- Black

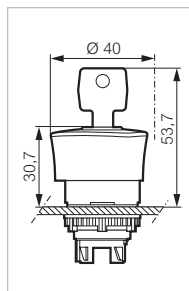
L22DD01
L22DD03

\varnothing 40 - STAY-PUT

Key to reset



L22GM01



Supplied with 2 keys profile n° 455

- Red

L22GM01

► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

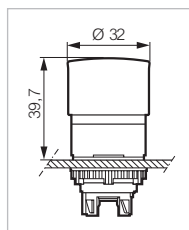
\varnothing 32 EN 418/ISO 13850 - STAY-PUT

Push-pull

Cat. No.



L22DQ01



Head position visible from the side with yellow collar
 Compliant with the requirements of emergency stop:
 IEC 60947-5-5 / EN 418/ISO 13850

- Red

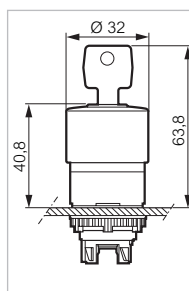
L22DQ01

\varnothing 32 EN 418/ISO 13850 - STAY-PUT

Key to reset



L22GQ01



Supplied with 2 keys profile n° 455
 Head position visible from the side with yellow collar
 Compliant with the requirements of emergency stop:
 IEC 60947-5-5 / EN 418/ISO 13850


- Red

L22GQ01

Catalogue No. in bold: normally in stock at distribution outlets

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip and electrical blocks (p. 48)
 Equipped with a locking ring
 Plastic black bezel
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED (CONTINUED)

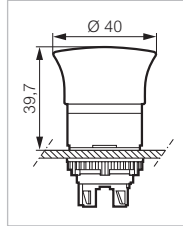
\varnothing 40 EN 418/ISO 13850 - STAY-PUT

Push-pull to reset

Cat. No.



L22DR01



Head position visible from the side with yellow collar
 Compliant with the requirements of emergency stop:
 IEC 60947-5-5 / EN 418/ISO 13850

● Red

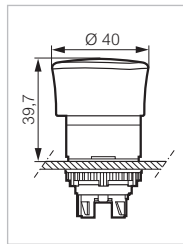
L22DR01

\varnothing 40 EN 418/ISO 13850 - STAY-PUT

Push-turn to reset



L22ER01



Head position visible from the side with yellow collar
 Compliant with the requirements of emergency stop:
 IEC 60947-5-5 / EN 418/ISO 13850

● Red

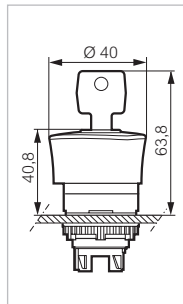
L22ER01

\varnothing 40 EN 418/ISO 13850 - STAY-PUT

Key to reset



L22GR01



Supplied with 2 keys profile n° 455
 Head position visible from the side with yellow collar
 Compliant with the requirements of emergency stop:
 IEC 60947-5-5 / EN 418/ISO 13850

● Red

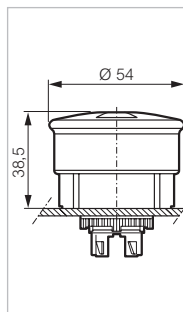
L22GR01

\varnothing 54 EN 418/ISO 13850 - STAY-PUT

Push-pull to reset with flag indicator



L22DU01




Double position indicator: head and collar
 Compliant with the requirements of emergency stop:
 IEC 60947-5-5 / EN 418/ISO 13850

● Red - engraving O- I
 ● Red - engraving STOP - I

L22DU01A
L22DU01

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip and electrical blocks (p. 48)
 Equipped with a locking ring
 Plastic chrome bezel - Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

▶ SELECTOR SWITCHES - NON ILLUMINATED

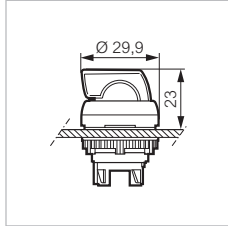
WITH HANDLE

2 positions

Cat. No.



L21KA03



Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21KA01
L21KA02
L21KA03
L21KA08

Spring return - 45°

- Red
- Green
- Black
- Grey



L21KB01
 L21KB02
L21KB03
 L21KB08

Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21KC01
L21KC02
L21KC03
L21KC08

Spring return - 45°

- Red
- Green
- Black
- Grey



L21KD01
 L21KD02
L21KD03
 L21KD08

Stay-put positions - 90°

- Red
- Green
- Black
- Grey



L21KE01
 L21KE02
L21KE03
 L21KE08

Stay-put positions - 90°


- Red
- Green
- Black
- Grey



L21KF01
 L21KF02
L21KF03
 L21KF08

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip and electrical blocks (p. 48)
 With locking ring
 Plastic chrome bezel- Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

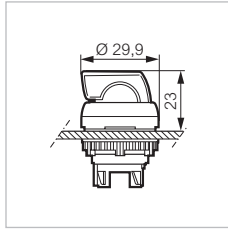
WITH HANDLE

3 positions

Cat. No.



L21MA03



Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21MA01
L21MA02
L21MA03
L21MA08

Spring return from left to 0 - 45°

- Red
- Green
- Black
- Grey



L21MB01
 L21MB02
L21MB03
 L21MB08

Spring return from right to 0 - 45°

- Red
- Green
- Black
- Grey



L21MC01
 L21MC02
L21MC03
 L21MC08

Spring return to 0 - 45°

- Red
- Green
- Black
- Grey



L21MD01
 L21MD02
L21MD03
 L21MD08

Stay-put positions - 90°

- Red
- Green
- Black
- Grey




L21MK01
 L21MK02
L21MK03
 L21MK08



L21MA08

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip and electrical blocks (p. 48)
 With locking ring
 Plastic chrome bezel- Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

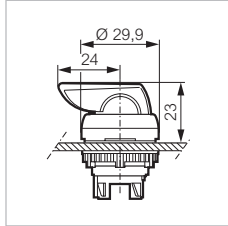
WITH LONG HANDLE

2 positions

Cat. No.



L21KP03



Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21KP01
 L21KP02
L21KP03
 L21KP08

Spring return - 45°

- Red
- Green
- Black



L21KQ01
 L21KQ02
L21KQ03

Stay-put positions - 45°

- Red
- Green
- Black



L21KR01
 L21KR02
L21KR03

Spring return - 45°

- Red
- Green
- Black



L21KS01
 L21KS02
L21KS03

Stay-put positions - 90°

- Red
- Green
- Black



L21KT01
 L21KT02
L21KT03

Stay-put positions - 90°


- Red
- Green
- Black



L21KU01
 L21KU02
L21KU03

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip and electrical blocks (p. 48)
 With locking ring
 Plastic chrome bezel- Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

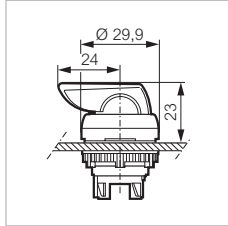
WITH LONG HANDLE

3 positions

Cat. No.



L21MR03



Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21MR01
 L21MR02
L21MR03
 L21MR08

Spring return from left to 0 - 45°

- Red
- Green
- Black
- Grey



L21MS01
 L21MS02
L21MS03
 L21MS08

Spring return from right to 0 - 45°

- Red
- Green
- Black
- Grey



L21MT01
 L21MT02
L21MT03
 L21MT08

Spring return to 0 - 45°


- Red
- Green
- Black
- Grey



L21MU01
 L21MU02
L21MU03
 L21MU08

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip and electrical blocks (p. 48)
 With locking ring
 Plastic chrome bezel- Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

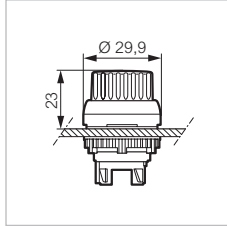
WITH KNOB

2 positions

Cat. No.



L21TF03



Stay-put positions - 45°

● Black



L21TA03

Spring return - 45°

● Black



L21TB03

Stay-put positions - 90°

● Black



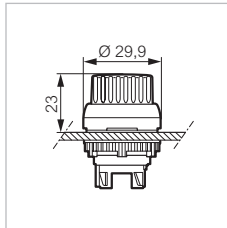
L21TF03

WITH KNOB

3 positions



L21UA03



Stay-put positions - 45°

● Black



L21UA03

Spring return from left to 0 - 45°

● Black



L21UB03

Spring return from right to 0 - 45°

● Black



L21UC03

Spring return to 0 - 45°

● Black



L21UD03

Stay-put positions - 90°


● Black



L21UK03

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip and electrical blocks (p. 48)
 With locking ring
 Plastic chrome bezel- Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

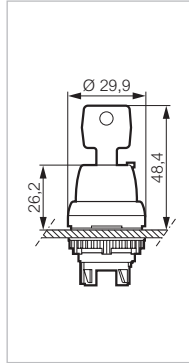
WITH KEY

2 positions

Cat. No.



L21LG00



Key free in position:

Supplied with 2 keys profile n° 455

Stay-put positions - 45°

● Black



0

L21LA00

Spring return - 45°

● Black



0

L21LB00

Stay-put positions - 45°

● Black



0

L21LC00

Spring return - 45°

● Black



0

L21LD00

Stay-put positions - 90°

● Black



0

L21LF00

Stay-put positions - 90°

● Black



0 - 1

L21LG00

Stay-put positions - 90°

● Black



0 - 1

L21LH00

Stay-put positions - 90°

● Black




1

L21LK00

Key profile n° 1424 A and others (form p. 79)

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip and electrical blocks (p. 48)
 With locking ring
 Plastic chrome bezel- Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

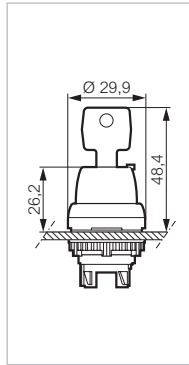
WITH KEY

3 positions

Cat. No.



L21NA00



Key free in position:

Supplied with 2 keys profile n° 455

Stay-put positions - 45°

● Black



0

L21NA00

Spring return from left to 0 - 45°

● Black



0

L21NB00

Spring return from right to 0 - 45°

● Black



0

L21NC00

Spring return to 0 - 45°

● Black



0

L21ND00

Stay-put positions - 45°

● Black



1 - 2

L21NE00

Spring return from right to 0 - 45°

● Black



1

L21NJ00

Stay-put positions - 90°

● Black



1 - 0 - 2

L21NK00

Stay-put positions - 90°

● Black




0

L21NL00

Key profile n° 1424 A and others (form p. 79)

Separate units \varnothing 22: Heads

IP 65
 With locking ring
 Plastic chrome bezel
 Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

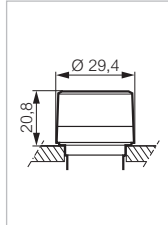
► ADJUSTABLE MECHANICAL PUSH/RESET BUTTON - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



L21HA01



To be used without electrical block
 Stroke 11 mm
 Adjustable: 26 mm min to 46 mm max / front side of panel

Without engraving

- Red
- Green
- Black
- Yellow
- White
- Blue

- L21HA01**
- L21HA02**
- L21HA03**
- L21HA04
- L21HA05
- L21HA06**

On demand engraving (p. 79)

Symbol code to be added at the end of the catalogue number

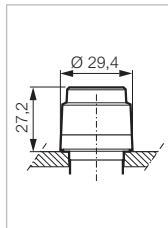
- Red
- Green
- Black
- Yellow
- White
- Blue

- L21HA31□□□□
- L21HA32□□□□
- L21HA33□□□□
- L21HA34□□□□
- L21HA35□□□□
- L21HA36□□□□

SPRING RETURN - PROJECTING



L21HB06




To be used without electrical block
 Stroke 11 mm
 Adjustable: 26 mm min to 46 mm max / front side of panel

- Red
- Green
- Black
- Yellow
- White
- Blue

- L21HB01**
- L21HB02**
- L21HB03**
- L21HB04
- L21HB05
- L21HB06**

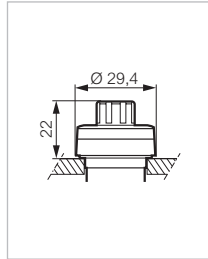
Separate units \varnothing 22: Heads

IP 65
With locking ring
Conform to IEC 60947-5-1

 Characteristics (p. 94)
Cross reference list (p. 311)

▶ BUTTON FOR POTENTIOMETER - NON ILLUMINATED

Cat. No.



Head + mounting base for potentiometer
Plastic chrome bezel

Shaft \varnothing 6 or 6.35 mm
Potentiometer length 46 to 51 mm

L21RP03

L21RP03

▶ JOYSTICKS - NON ILLUMINATED

Cat. No.



LM2F

Heads supplied with a 3 position clip
Specific electrical blocks (p. 63)

Head does not lock in position 0

2 directions - 3 positions

2 maintained (stay-put) A - 0 - B
2 spring-return A → 0 ← B

LM2F
LM2A

4 directions - 5 positions

4 maintained (stay-put) A
 C - 0 - D
 B

LM4F

4 spring-return

A
C → 0 ← D
B

LM4A

Head locks in position 0

2 directions - 3 positions

2 maintained (stay-put) A - 0 - B
2 spring-return A → 0 ← B

LMV2F
LMV2A

4 directions - 5 positions

4 maintained (stay-put) A
 C - 0 - D
 B

LMV4F

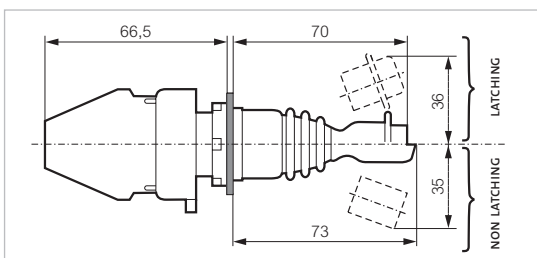
4 spring-return

A
C → 0 ← D
B

LMV4A




LMV4F



Catalogue No. in bold: normally in stock at distribution outlets

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip, LED block and contact blocks (p. 48)
 With locking ring
 Plastic chrome bezel- Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

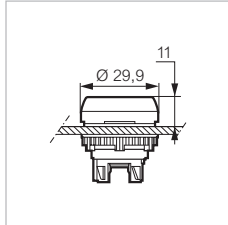
► PUSH-BUTTONS - ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



L21AH20



Without engraving

- Red
- Green
- Yellow
- White
- Blue

L21AH10
L21AH20
L21AH40
L21AH50
L21AH60

On demand engraving (p. 79)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- White
- Blue

L21AH31|_|_|_|
 L21AH32|_|_|_|
 L21AH34|_|_|_|
 L21AH35|_|_|_|
 L21AH36|_|_|_|

Without button plate

L21AH00

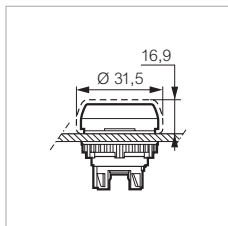
Button plates (p. 74)

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



L22AP40



Supplied with transparent shroud

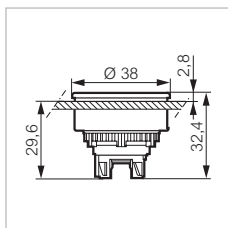
- Red
- Green
- Yellow
- White
- Blue

L22AP10
 L22AP20
 L22AP40
 L22AP50
 L22AP60

SPRING RETURN - SUPER FLUSH



L23AH10



Metallic chrome bezel
 Drilling \varnothing 30 mm

Without engraving

- Red
- Green
- Yellow
- White
- Blue

L23AH10
L23AH20
L23AH40
L23AH50
L23AH60

On demand engraving (p. 79)

Symbol code to be added at the end of the catalogue number


- Red
- Green
- Yellow
- White
- Blue

L23AH31|_|_|_|
 L23AH32|_|_|_|
 L23AH34|_|_|_|
 L23AH35|_|_|_|
 L23AH36|_|_|_|

Catalogue No. in bold: normally in stock at distribution outlets

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip, LED block and contact blocks (p. 48)
 With locking ring
 Plastic chrome bezel
 Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

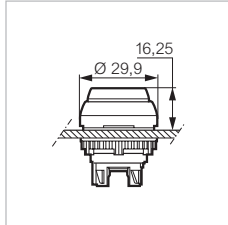
► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

SPRING RETURN - PROJECTING

Cat. No.



L21AK20



- Red
- Green
- Yellow
- White
- Blue

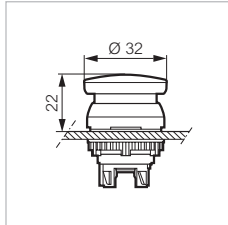
- L21AK10**
- L21AK20**
- L21AK40**
- L21AK50**
- L21AK60**

SPRING RETURN - MUSHROOM HEAD \varnothing 32

Push



L21AL10



- Red
- Green
- Yellow
- White

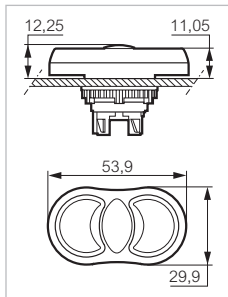
- L21AL10**
- L21AL20**
- L21AL40**
- L21AL50**

SPRING RETURN - FLUSH-FLUSH



Double touch



L61QH21



Central part illuminated

-  Green
-  Red
- Green
- Green
- Green engraving START
- Red engraving STOP


L61QH21

L61QH22V

L61QH21A

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip, LED block and contact blocks (p. 48)
 With locking ring
 Plastic chrome bezel - Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

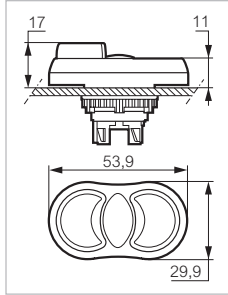
SPRING RETURN - FLUSH-PROJECTING

Double touch







Cat. No.



L61QK21



Central part illuminated

-  Green
-  Red
-  White
-  Black
-  Green engraving START
-  Red engraving STOP

L61QK21

L61QK53

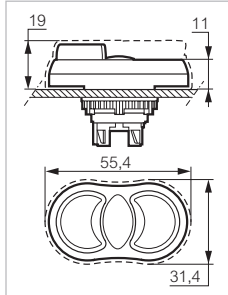
L61QK21A

SPRING RETURN - FLUSH-PROJECTING

Double touch - reinforced degree of protection: IP 67



L62QN21




Supplied with transparent shroud
 Central part illuminated

-  Green
-  Red

L62QN21

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip, LED block and contact blocks (p. 48)
 With locking ring
 Plastic chrome bezel - Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

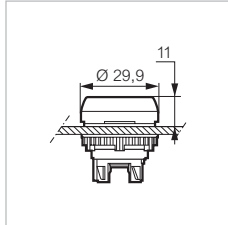
► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

STAY-PUT - FLUSH

Réf.



L21CH20



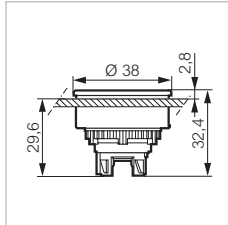
- Red
- Green
- Yellow
- White
- Blue

- L21CH10**
- L21CH20**
- L21CH40**
- L21CH50**
- L21CH60**

STAY-PUT - SUPER FLUSH



L23CH10



Metallic chrome bezel
 Drilling \varnothing 30 mm

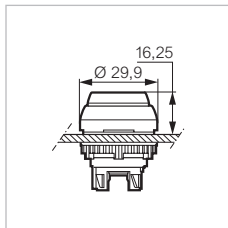
- Red
- Green
- Yellow
- White
- Blue

- L23CH10**
- L23CH20**
- L23CH40**
- L23CH50**
- L23CH60**

STAY-PUT - PROJECTING



L21CK20




- Red
- Green
- Yellow
- White
- Blue

- L21CK10**
- L21CK20**
- L21CK40**
- L21CK50**
- L21CK60**

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip, LED block and contact blocks (p. 48)
 With locking ring
 Black bezel
 Conform to IEC 60947-5-1

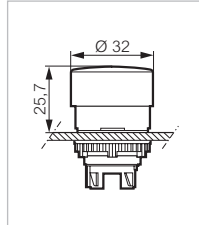
 Characteristics (p. 94)
 Cross reference list (p. 311)

► MUSHROOM HEADS - ILLUMINATED

\varnothing 32 - STAY-PUT

Push-turn to reset

Cat. No.



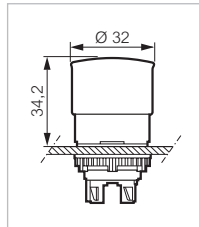
● Red

L22EL10

L22EL10

\varnothing 32 - STAY-PUT

Push-pull to reset



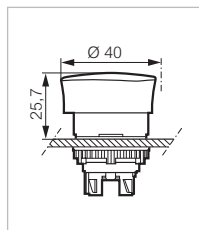
● Red

L22DL10

L22DL10

\varnothing 40 - STAY-PUT

Push-turn to reset



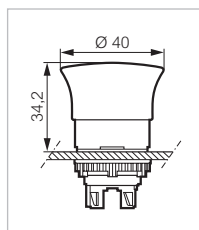
● Red
 ● Green
 ● Yellow

L22EM10
L22EM20
L22EM40

L22EM10

\varnothing 40 - STAY-PUT

Push-pull to reset




● Red
 ● Green
 ● Yellow
 ○ White

L22DM10
L22DM20
L22DM40
L22DM50

L22DM10

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip, LED block and contact blocks (p. 48)
 With locking ring
 Plastic chrome bezel - Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► EN 418/ISO 13850 EMERGENCY STOP - ILLUMINATED

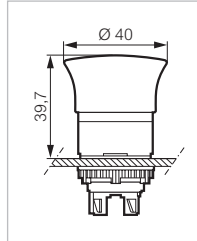
\varnothing 40 EN 418/ISO 13850- STAY-PUT

Push-pull to reset

Cat. No.



L22DN10



Black bezel
 Head position visible from the side with yellow collar
 Compliant with the requirements of emergency stop:
 IEC 60947-5-5 / EN 418/ISO 13850

● Red

L22DN10

► SELECTOR SWITCHES - ILLUMINATED

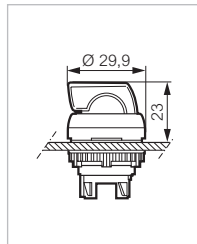
WITH HANDLE

2 positions

Cat. No.



L21KJ30



Stay-put positions - 45°

● Red
 ● Green
 ● Black



L21KG10
L21KG20
L21KG30

Spring return- 45°

● Red
 ● Green
 ● Black



L21KH10
 L21KH20
L21KH30

Stay-put positions - 45°

● Red
 ● Green
 ● Black



L21KJ10
L21KJ20
L21KJ30

Spring return- 45°

● Red
 ● Green
 ● Black



L21KK10
 L21KK20
L21KK30

Stay-put positions - 90°

● Red
 ● Green
 ● Black



L21KL10
 L21KL20
L21KL30

Stay-put positions - 90°

● Red
 ● Green
 ● Black




L21KM10
 L21KM20
L21KM30

Catalogue No. in bold: normally in stock at distribution outlets

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip, LED block and contact blocks (p. 48)
 With locking ring
 Plastic chrome bezel - Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

▶ SELECTOR SWITCHES - ILLUMINATED

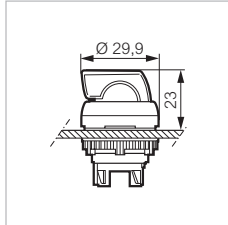
WITH HANDLE

3 positions

Cat. No.



L21ME10



Stay-put positions - 45°

- Red
- Green
- Black



L21ME10
L21ME20
L21ME30

Spring return from left to 0 - 45°

- Red
- Green
- Black



L21MF10
L21MF20
L21MF30

Spring return from right to 0 - 45°

- Red
- Green
- Black



L21MG10
L21MG20
L21MG30

Spring return to 0 - 45°

- Red
- Green
- Black



L21MH10
L21MH20
L21MH30

Stay-put positions - 90°


- Red
- Green
- Black



L21MJ10
L21MJ20
L21MJ30

Separate units \varnothing 22: Heads

IP 66
 To be combined with a clip, LED block and contact blocks (p. 48)
 With locking ring
 Plastic chrome bezel - Black bezel on request (form p. 79)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

▶ SELECTOR SWITCHES - ILLUMINATED (CONTINUED)

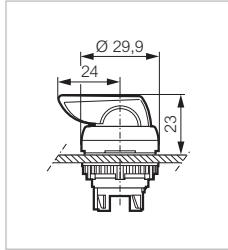
WITH LONG HANDLE

2 positions

Cat. No



L21KV30



Stay-put positions - 45°

- Black



L21KV30

Stay-put positions - 45°

- Black



L21KX30

Spring return - 45°

- Black



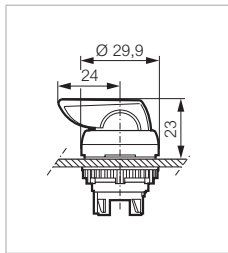
L21KY30

WITH LONG HANDLE

3 positions



L21ML30



Stay-put positions - 45°

- Black



L21ML30

Spring return from left to 0 - 45°

- Black



L21MM30

Spring return from right to 0 - 45°

- Black



L21MN30

Spring return to 0 - 45°

- Black



L21MP30

Pilot lights \varnothing 22

IP 66



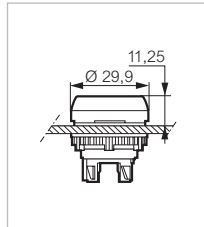
Characteristics (p. 94)
Cross reference list (p. 311)

▶ PILOT LIGHTS - SEPARATE UNITS

Cat. No



L20SE20



To be combined with a clip and LED block (p. 51)

Without engraving

- Red
- Green
- Yellow
- White
- Blue

L20SE10
L20SE20
L20SE40
L20SE50
L20SE60

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- White
- Blue

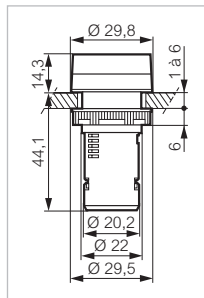
L20SE31|_|_|_|
L20SE32|_|_|_|
L20SE34|_|_|_|
L20SE35|_|_|_|
L20SE36|_|_|_|

▶ ONE-PIECE PILOT LIGHTS

Cat. No



L20SA40



To be used with BA9S bulbs (not supplied)
Direct supply
To be used without electrical block

Without engraving

Ribbed lens (incandescent, neon or fluo)

- Red
- Green
- Colourless
- Yellow
- White
- Blue

L20SA10
L20SA20
L20SA30
L20SA40
L20SA50
L20SA60

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number


Smooth lens

- Red
- Green
- Colourless
- Yellow
- White
- Blue

L20SA31|_|_|_|
L20SA32|_|_|_|
L20SA33|_|_|_|
L20SA34|_|_|_|
L20SA35|_|_|_|
L20SA36|_|_|_|

Pilot lights \varnothing 22

IP 66
Direct supply
To be used without electrical block

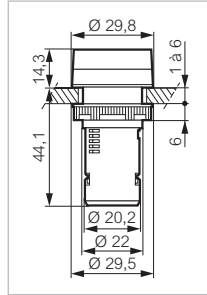
 Characteristics (p. 94)
Cross reference list (p. 311)

▶ ONE-PIECE PILOT LIGHTS (CONTINUED)

Cat. No.



L20SA10M



Supplied with LED bulb-type BA9S
Smooth lens

24V

Without engraving

- Red
- Green
- Yellow
- White
- Blue

- L20SA10L**
- L20SA20L**
- L20SA40L**
- L20SA50L**
- L20SA60L**

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- Colourless
- Blue

- L20SA31L[] [] [] []
- L20SA32L[] [] [] []
- L20SA34L[] [] [] []
- L20SA33L[] [] [] []
- L20SA36L[] [] [] []

130V

Without engraving

- Red
- Green
- Yellow
- White
- Blue

- L20SA10M**
- L20SA20M**
- L20SA40M**
- L20SA50M**
- L20SA60M**

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- Colourless
- Blue

- L20SA31M[] [] [] []
- L20SA32M[] [] [] []
- L20SA34M[] [] [] []
- L20SA33M[] [] [] []
- L20SA36M[] [] [] []

230V

Without engraving

- Red
- Green
- Yellow
- White
- Blue

- L20SA10H**
- L20SA20H**
- L20SA40H**
- L20SA50H**
- L20SA60H**

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- Colourless
- Blue

- L20SA31H[] [] [] []
- L20SA32H[] [] [] []
- L20SA34H[] [] [] []
- L20SA33H[] [] [] []
- L20SA36H[] [] [] []

Block holder clips for assembly as you require

1, 3 or 5-position clips

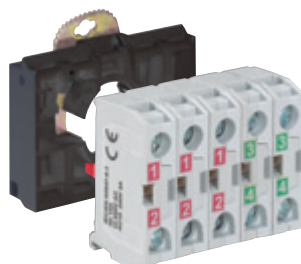
► CLIP

"A flexible configuration for assembly in any order..."

► 3 BLOCKS



► 5 BLOCKS



► MODULAR

Stacking without accessories



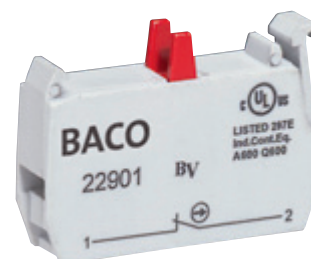
- Snap fit, tools not required to attach contact blocks
- Cost effective solution: 1 position clip
- Blocks can be stacked on 2 levels, up to 3 blocks wide
- Blocks can be assembled in any order (except pilot light)
- Optimised dimensions: reduced depth of blocks

► BLOCK

"Imaginatively designed to be safe, robust and durable"

► MATERIAL

- IP20 as "finger safe"
- Electrical insulation
- Corrosion-resistant



► ENVIRONMENT


- Respect for the environment, RoHS compliant



- LED blocks: combine long life and economy
- Corrosion resistant to some chemicals and sea air, etc
- Conform to standard EN IEC 60947-5-1
- Conform to RoHS European directive concerning restriction of hazardous substances

Separate units: Blocks sub-assemblies

IP 20
 Clip and electrical blocks assembled
 To be combined with a head (p. 21)
 Mounting (p. 92)
 Conform to IEC 60947-5-1

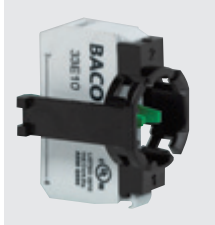
 Characteristics (p. 94)
 Cross reference list (p. 311)

► CONTACT BLOCKS - FOR NON ILLUMINATED HEADS

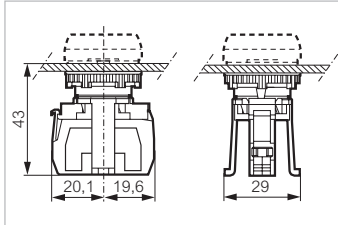
SCREW TERMINALS

1 position clip

Cat. No.



331E10



NO  13 14
 NC  21 22

331E10

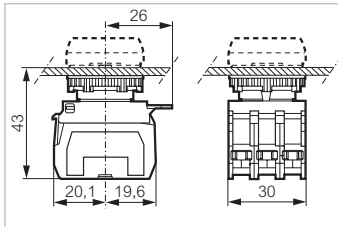
331E01



SCREW TERMINALS

3 position clip





333E21





NO  13 14
 NC  21 22

333E10



333E01

2 NO  13 14  23 24




333E20

2 NC  11 12  21 22




333E02

NO + NC  13 14  21 22

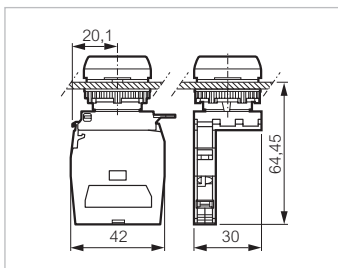
333E11

3 NO  13 14  33 34  23 24




333E30

3 NC  11 12  31 32  21 22




333E03



NO/NC

2 NO + NC  13 14  33 34  21 22





333E21

NO + 2 NC  13 14  31 32  21 22

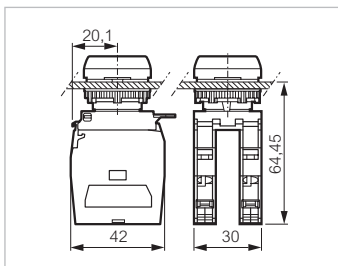
333E12

NO/NC  12 11  14 13

334E11

2 NO/NC  12 11  14 13  22 21  24 23


334E22



2 NO/NC

Separate units: Blocks sub-assemblies

IP 20
 Clip and electrical blocks assembled
 To be combined with a head (p. 21)
 Mounting (p. 92)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► CONTACT BLOCKS - FOR NON ILLUMINATED HEADS (CONTINUED)

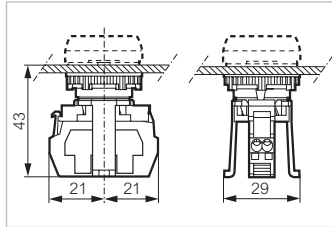
PLUG-IN TERMINALS

1 position clip

Cat. No.



331ER01



NO 
 NC 

331ER10

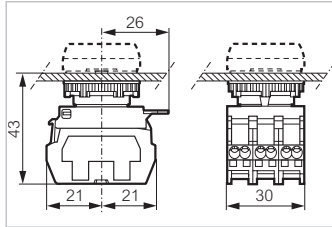
331ER01






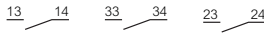
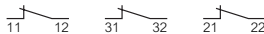
PLUG-IN TERMINALS

3 position clip



333ER11



NO 
 NC 
 2 NO 
 2 NC 
 NO+NC 
 3 NO 
 3 NC 

333ER10

333ER01

333ER20

333ER02


333ER11

333ER30

333ER03

Separate units: Blocks sub-assemblies

IP 20
 Clip and electrical blocks assembled
 To be combined with a head (p. 21)
 Mounting (p. 92)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

▶ CONTACT BLOCKS - FOR NON ILLUMINATED HEADS (CONTINUED)

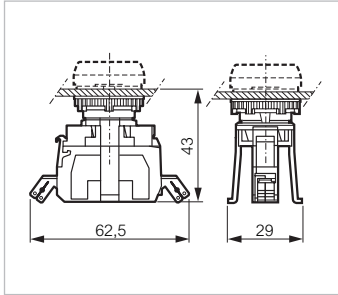
FASTON TERMINALS


1 position clip

Cat. No.



331ED10



NO  13 14
 NC  21 22

331ED10

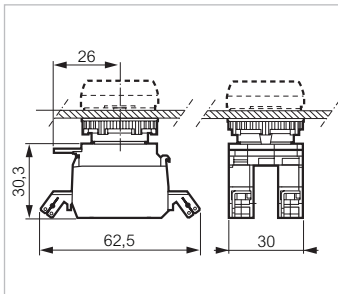
331ED01



FASTON TERMINALS

3 position clip



333ED11




NO + NC  13 14  21 22

333ED11

Separate units: Blocks sub-assemblies

IP 20
 Clip and electrical blocks assembled
 To be combined with a head (p. 21)
 Mounting (p. 92)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS

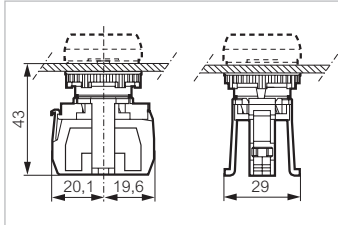
SCREW TERMINALS

1 position clip: LED block

Cat. No.



331EAGL



24 V

- White
- Red
- Green
- Blue
- Yellow

331EAWL
331EARL
331EAGL
331EABL
331EAYL

130 V

- White
- Red
- Green
- Blue
- Yellow

331EAWM
331EARM
331EAGM
331EABM
331EAYM

230 V

- White
- Red
- Green
- Blue
- Yellow

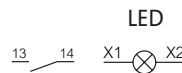
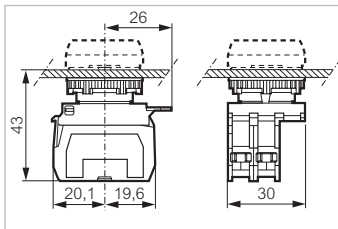
331EAWH
331EARH
331EAGH
331EABH
331EAYH

SCREW TERMINALS

3 position clip: NO + LED block



333EAWM10



24 V

- White
- Red
- Green
- Blue
- Yellow

333EAWL10
333EARL10
333EAGL10
333EABL10
333EAYL10

130 V

- White
- Red
- Green
- Blue
- Yellow

333EAWM10
333EARM10
333EAGM10
333EABM10
333EAYM10


230 V

- White
- Red
- Green
- Blue
- Yellow

333EAWH10
333EARH10
333EAGH10
333EABH10
333EAYH10

Separate units: Blocks sub-assemblies

IP 20
 Clip and electrical blocks assembled
 To be combined with a head (p. 21)
 Mounting (p. 92)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

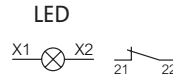
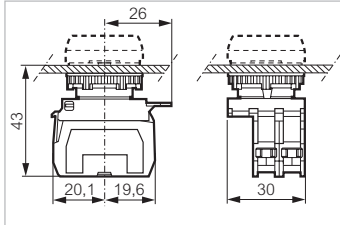
SCREW TERMINALS

3 position clip: LED block + NC

Cat. No.



333EAWL01



24 V

- White
- Red
- Green
- Blue
- Yellow

333EAWL01
333EARL01
333EAGL01
333EABL01
333EAYL01

130 V

- White
- Red
- Green
- Blue
- Yellow

333EAWM01
333EARM01
333EAGM01
333EABM01
333EAYM01

230 V

- White
- Red
- Green
- Blue
- Yellow

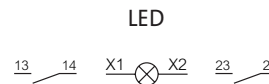
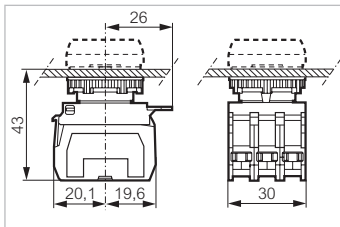
333EAWH01
333EARH01
333EAGH01
333EABH01
333EAYH01

SCREW TERMINALS

3 position clip: NO + LED block + NO



333EARL20



24 V

- White
- Red
- Green
- Blue
- Yellow

333EAWL20
333EARL20
333EAGL20
333EABL20
333EAYL20

130 V

- White
- Red
- Green
- Blue
- Yellow

333EAWM20
333EARM20
333EAGM20
333EABM20
333EAYM20


230 V

- White
- Red
- Green
- Blue
- Yellow

333EAWH20
333EARH20
333EAGH20
333EABH20
333EAYH20

Separate units: Blocks sub-assemblies

IP 20
 Clip and electrical blocks assembled
 To be combined with a head (p. 21)
 Mounting (p. 92)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

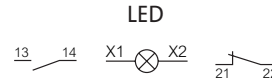
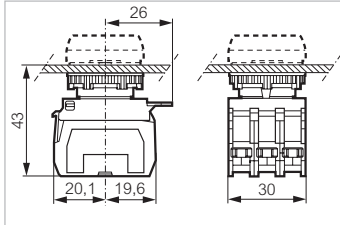
SCREW TERMINALS

3 position clip: NO + LED block + NC

Cat. No.



333EARL11



24 V

- White
- Red
- Green
- Blue
- Yellow

333EAWL11
333EARL11
333EAGL11
333EABL11
333EAYL11

130 V

- White
- Red
- Green
- Blue
- Yellow

333EAWM11
333EARM11
333EAGM11
333EABM11
333EAYM11

230 V

- White
- Red
- Green
- Blue
- Yellow

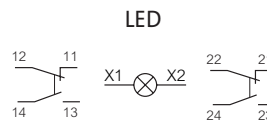
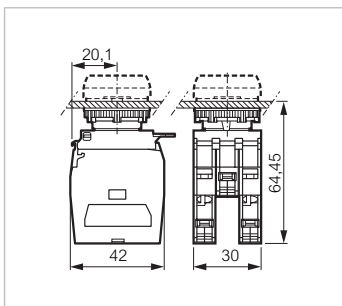
333EAWH11
333EARH11
333EAGH11
333EABH11
333EAYH11

SCREW TERMINALS

3 position clip: NO/NC + LED block + NO/NC



334EARL22



24 V

- White
- Red
- Green
- Blue
- Yellow

334EAWL22
334EARL22
334EAGL22
334EABL22
334EAYL22

130 V

- White
- Red
- Green
- Blue
- Yellow

334EAWM22
334EARM22
334EAGM22
334EABM22
334EAYM22


230 V

- White
- Red
- Green
- Blue
- Yellow

334EAWH22
334EARH22
334EAGH22
334EABH22
334EAYH22

Separate units: Blocks sub-assemblies

IP 20
 Clip and electrical blocks assembled
 To be combined with a head (p. 21)
 Mounting (p. 92)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

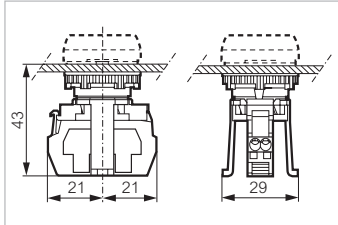
PLUG-IN TERMINALS

1 position clip: LED block

Cat. No.



331ERAGH



24 V

- White
- Red
- Green
- Blue
- Yellow

331ERAWL
331ERARL
331ERAGL
331ERABL
331ERAYL

130 V

- White
- Red
- Green
- Blue
- Yellow

331ERAWM
331ERARM
331ERAGM
331ERABM
331ERAYM

230 V

- White
- Red
- Green
- Blue
- Yellow

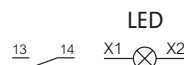
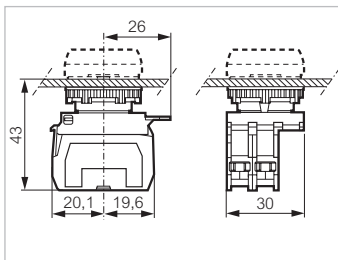
331ERAWH
331ERARH
331ERAGH
331ERABH
331ERAYH

PLUG-IN TERMINALS

3 position clip: NO + LED block



333ERAGL10



24 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWL10
333ERARL10
333ERAGL10
333ERABL10
333ERAYL10

130 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWM10
333ERARM10
333ERAGM10
333ERABM10
333ERAYM10


230 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWH10
333ERARH10
333ERAGH10
333ERABH10
333ERAYH10

Separate units: Blocks sub-assemblies

IP 20
 Clip and electrical blocks assembled
 To be combined with a head (p. 21)
 Mounting (p. 92)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

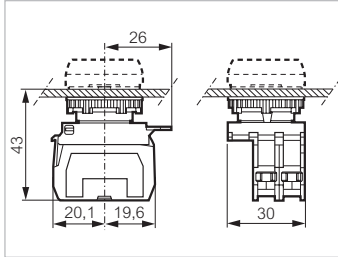
PLUG-IN TERMINALS

3 position clip: LED block + NC

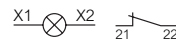
Cat. No.



333ERAGH01



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

- 333ERAWL01
- 333ERARL01
- 333ERAGL01
- 333ERABL01
- 333ERAYL01

130 V

- White
- Red
- Green
- Blue
- Yellow

- 333ERAWM01
- 333ERARM01
- 333ERAGM01
- 333ERABM01
- 333ERAYM01

230 V

- White
- Red
- Green
- Blue
- Yellow

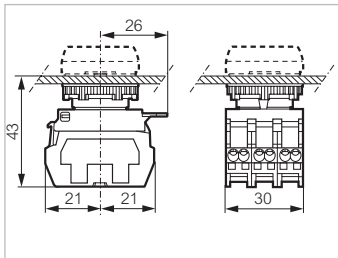
- 333ERAWH01
- 333ERARH01
- 333ERAGH01
- 333ERABH01
- 333ERAYH01

PLUG-IN TERMINALS

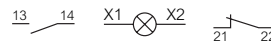
3 position clip: NO + LED block + NC



333ERAGH11



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

- 333ERAWL11
- 333ERARL11
- 333ERAGL11
- 333ERABL11
- 333ERAYL11

130 V

- White
- Red
- Green
- Blue
- Yellow

- 333ERAWM11
- 333ERARM11
- 333ERAGM11
- 333ERABM11
- 333ERAYM11

230 V


- White
- Red
- Green
- Blue
- Yellow

- 333ERAWH11
- 333ERARH11
- 333ERAGH11
- 333ERABH11
- 333ERAYH11

Catalogue No. in bold: normally in stock at distribution outlets

Separate units: Blocks sub-assemblies

IP 20
 Clip and electrical blocks assembled
 To be combined with a head (p. 21)
 Mounting (p. 92)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

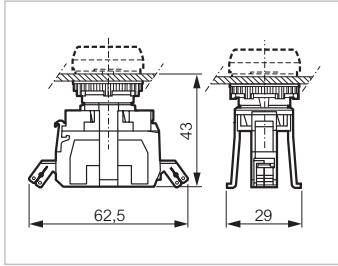
FASTON TERMINALS

1 position clip: LED block

Cat. No.



331EDARL



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

331EDAWL
 331EDARL
 331EDAGL
 331EDABL
 331EDAYL

130 V

- White
- Red
- Green
- Blue
- Yellow

331EDAWM
 331EDARM
 331EDAGM
 331EDABM
 331EDAYM

230 V

- White
- Red
- Green
- Blue
- Yellow

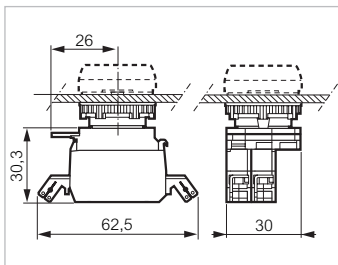
331EDAWH
 331EDARH
 331EDAGH
 331EDABH
 331EDAYH

FASTON TERMINALS

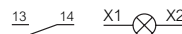
3 position clip: NO + LED block



333EDARL10



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWL10
 333EDARL10
 333EDAGL10
 333EDABL10
 333EDAYL10

130 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWM10
 333EDARM10
 333EDAGM10
 333EDABM10
 333EDAYM10


230 V

- White
- Red
- Green
- Blue

333EDAWH10
 333EDARH10
 333EDAGH10
 333EDABH10

Separate units: Blocks sub-assemblies

IP 20
 Clip and electrical blocks assembled
 To be combined with a head (p. 21)
 Mounting (p. 92)
 Conform to IEC 60947-5-1

 Characteristics (p. 94)
 Cross reference list (p. 311)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

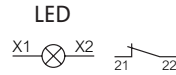
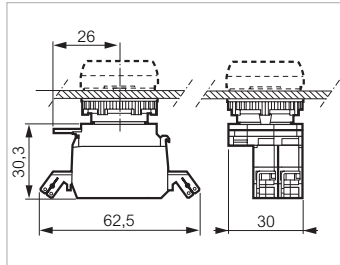
FASTON TERMINALS

3 position clip: LED block + NC

Cat. No.



333EDARM01



24 V

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWL01
- 333EDARL01
- 333EDAGL01
- 333EDABL01
- 333EDAYL01

130 V

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWM01
- 333EDARM01
- 333EDAGM01
- 333EDABM01
- 333EDAYM01

230 V

- White
- Red
- Green
- Blue
- Yellow

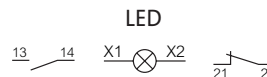
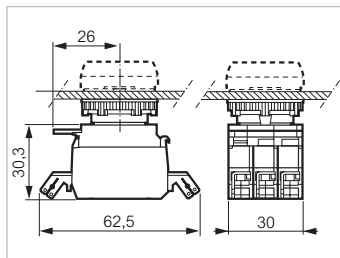
- 333EDAWH01
- 333EDARH01
- 333EDAGH01
- 333EDABH01
- 333EDAYH01

FASTON TERMINALS

3 position clip: NO + LED block + NC



333EDARL11



24 V

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWL11
- 333EDARL11
- 333EDAGL11
- 333EDABL11
- 333EDAYL11

130 V

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWM11
- 333EDARM11
- 333EDAGM11
- 333EDABM11
- 333EDAYM11

230 V


- White
- Red
- Green
- Blue
- Yellow

- 333EDAWH11
- 333EDARH11
- 333EDAGH11
- 333EDABH11
- 333EDAYH11

Catalogue No. in bold: normally in stock at distribution outlets

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)

 Characteristics (p. 94)
Cross reference list (p. 311)

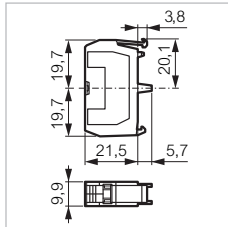
▶ CONTACT BLOCKS

SCREW TERMINALS

Cat. No.



33E10



NO



33E10

NC



33E01

NO/NC



33E11

**Golden contacts
for low current**

NO



33E10Y7

NC



33E01Y7

Contact with delayed opening

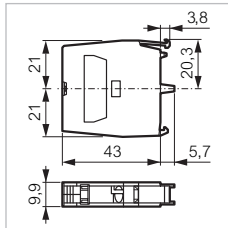
NC



33E01C



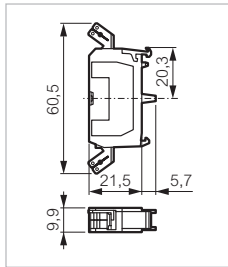
33E11



FASTON TERMINALS



33D01



NO



33D10

NC

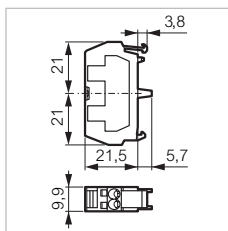


33D01

PLUG-IN TERMINALS



33R01



NO



33R10


NC



33R01

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)

 Characteristics (p. 94)
Cross reference list (p. 311)

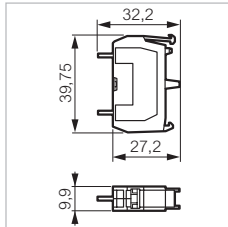
▶ CONTACT BLOCKS (CONTINUED)

FOR PCB (PIN-STYLE TERMINALS)

Cat. No.



33P10



NO 

33P10

NC 

33P01

**Golden contacts
for low current**

NO 

33P10Y7

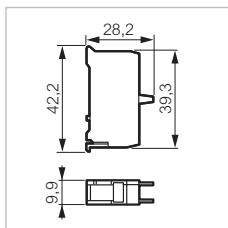
NC 

33P01Y7

FOR CONTROL STATIONS (SCREW TERMINALS)



33S01



For un-equipped control stations (p. 86)
Base mounted

NO 


33S10

NC 

33S01

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)

 Characteristics (p. 94)
Cross reference list (p. 311)

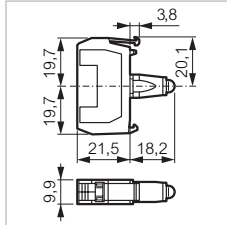
▶ LED BLOCKS

SCREW TERMINALS

Cat. No.



33EARL



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

33EAWL
33EARL
33EAGL
33EABL
33EAYL

48 V

- White
- Red
- Green
- Blue
- Yellow

33EAWL4
33EARL4
33EAGL4
33EABL4
33EAYL4

130 V

- White
- Red
- Green
- Blue
- Yellow

33EAWM
33EARM
33EAGM
33EABM
33EAYM


230 V

- White
- Red
- Green
- Blue
- Yellow

33EAWH
33EARH
33EAGH
33EABH
33EAYH

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)

 Characteristics (p. 94)
Cross reference list (p. 311)

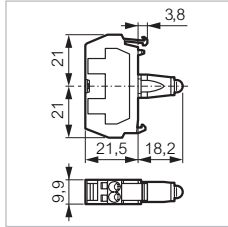
▶ LED BLOCKS (CONTINUED)

PLUG-IN TERMINALS

Cat. No.



33RAGH



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

33RAWL
33RARL
33RAGL
33RABL
33RAYL

130 V

- White
- Red
- Green
- Blue
- Yellow

33RAWM
33RARM
33RAGM
33RABM
33RAYM

230 V

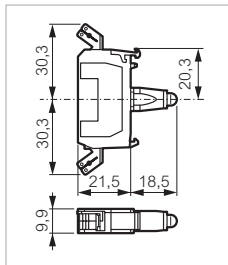
- White
- Red
- Green
- Blue
- Yellow

33RAWH
33RARH
33RAGH
33RABH
33RAYH

FASTON TERMINALS



33DARL



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

33DAWL
33DARL
33DAGL
33DABL
33DAYL

130 V

- White
- Red
- Green
- Blue
- Yellow

33DAWM
33DARM
33DAGM
33DABM
33DAYM


230 V

- White
- Red
- Green
- Blue
- Yellow

33DAWH
33DARH
33DAGH
33DABH
33DAYH

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)

 Characteristics (p. 94)
Cross reference list (p. 311)

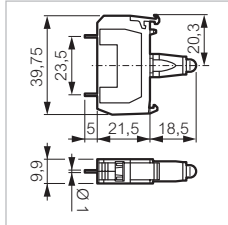
▶ LED BLOCKS (CONTINUED)

FOR PCB (PIN STYLE)

Cat. No.



33PAWL



LED



24 V

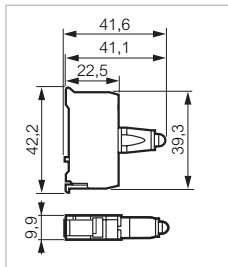
- White
- Red
- Green
- Blue
- Yellow

- 33PAWL**
- 33PARL**
- 33PAGL**
- 33PABL**
- 33PAYL**

FOR CONTROL STATIONS (SCREW TERMINALS)



33SAGH



For un-equipped control stations (p. 86)
Base mounted

LED



24 V

- White
- Red
- Green
- Blue
- Yellow

- 33SAWL**
- 33SARL**
- 33SAGL**
- 33SABL**
- 33SAYL**

130 V

- White
- Red
- Green
- Blue
- Yellow

- 33SAWM**
- 33SARM**
- 33SAGM**
- 33SABM**
- 33SAYM**


230 V

- White
- Red
- Green
- Blue
- Yellow

- 33SAWH**
- 33SARH**
- 33SAGH**
- 33SABH**
- 33SAYH**

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)

 Characteristics (p. 94)
Cross reference list (p. 311)

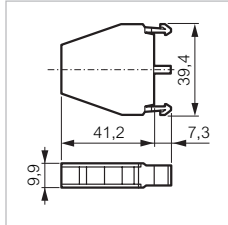
► SPECIFIC BLOCKS

FOR JOYSTICKS (SCREW TERMINALS)

Cat. No.



LM11



Joysticks (p. 36)

NO -NC

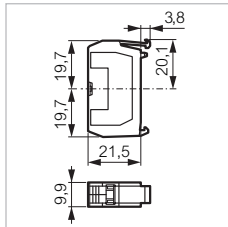


LM11

LAMP-TEST BLOCKS (SCREW TERMINALS)

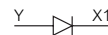


33ET



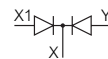
For 24 and 48 V

1 diod



33ET

2 diods



33ETT

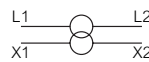
For 130 and 230 V (form p. 79)

TRANSFORMER BLOCKS (SCREW TERMINALS)

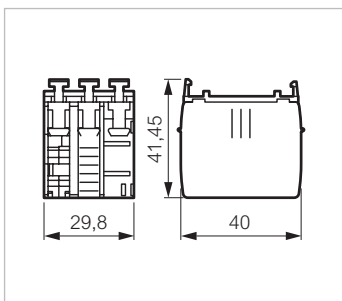


33EHC

230/24 V
400/24V




33EHC
33ELC



Catalogue No. in bold: normally in stock at distribution outlets

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)

 Characteristics (p. 94)
Cross reference list (p. 311)

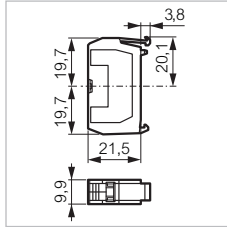
► SPECIFIC BLOCKS

FILTER BLOCKS (SCREW TERMINALS)

Cat. No.



33EFH



Prevents from voltage peaks for LED block
To be wired in parallel of with the LED block

130 V
230 V

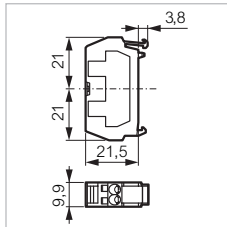


33EFM
33EFH

FILTER BLOCKS (PLUG-IN TERMINALS)



33RFH



Prevents from voltage peaks for LED block
To be wired in parallel of the LED block

130 V
230 V

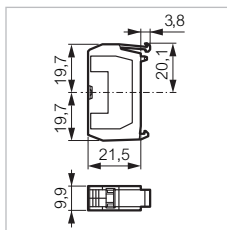


33RFM
33RFH

JUNCTION BLOCK (SCREW TERMINALS)



33EY



2 interconnected
terminals

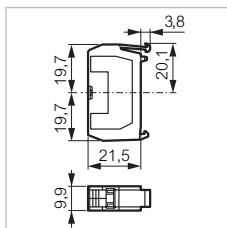


33EY

EMPTY BLOCK



33EX




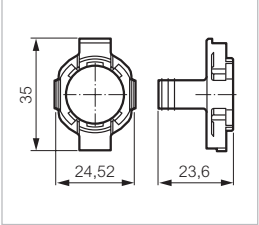

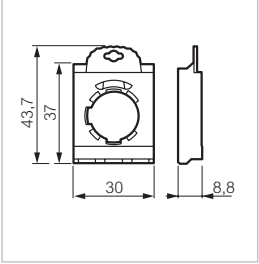

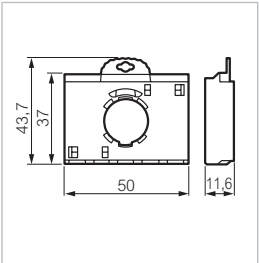
For empty positions on 3 or 5 position clip

33EX


Accessories

 Characteristics (p. 94)

▶ CLIPS

CLIPS		Cat. No.
		To be combined with blocks (p. 58 to 64) 1 position
331E		331E
		3 positions
333E		333E
		5 positions (only for $\varnothing 22$ heads)
335E		335E

▶ ROUND LEGEND PLATE

FOR MUSHROOM HEAD		Cat. No.
	Yellow, black engraving	
	$\varnothing 60$ ARRET D'URGENCE NOT AUS EMERGENCY STOP	LWE16100 LWE16200 LWE16300
	$\varnothing 80$ ARRET D'URGENCE NOT AUS EMERGENCY STOP	LWE00100 LWE00200 LWE00300
LWE16300	Other languages (form p. 79)	

Catalogue No. in bold: normally in stock at distribution outlets

Accessories ø 22

 Characteristics (p. 94)

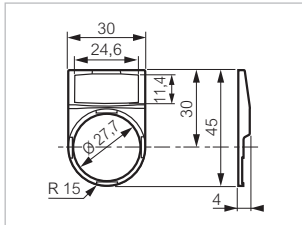
▶ COMPLETE FRAMES

Standard model - 30 x 45 mm

Cat. No.



LWP31



Round shape
Black frame and legend plate unassembled
2 lines maximum, 13 characters per line

Without engraving

- White
- Red
- Alu
- Black

LWP35
LWP31
LWP39
LWP33

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- White
- Red
- Alu
- Black

LWP35□□□□
LWP31□□□□
LWP39□□□□
LWP33□□□□

Protective mask for legend plate (paper or other ...)

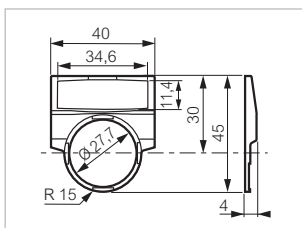
- Transparent

LWP37

Large model - 40 x 45 mm



LWG33



Round shape
Black frame and legend plate unassembled
2 lines maximum, 18 characters per line

Without engraving

- White
- Red
- Alu
- Black

LWG35
LWG31
LWG39
LWG33

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- White
- Red
- Alu
- Black

LWG35□□□□
LWG31□□□□
LWG39□□□□
LWG33□□□□

Protective mask for legend plate (paper or other ...)

- Transparent

LWG37

Accessories ø 22

 Characteristics (p. 94)

▶ LEGEND PLATES

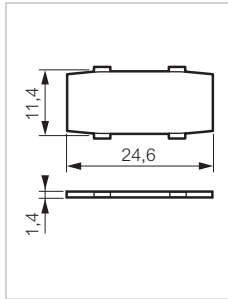
TO BE ENGRAVED

Standard model

Cat. No.



LIA5



2 lines maximum
13 characters per line
For round and square frames cat. nos. LWP3, LWP4 et LWP2 (p. 69)

Without engraving

- White
- Red
- Alu
- Black

LIA5
LIA1
LIA9
LIA3

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- White - black engraving
- Red - white engraving
- Alu - black engraving
- Black - white engraving

LIA5□□□
LIA1□□□
LIA9□□□
LIA3□□□

Protective mask for legend plate (paper or other ...)

- Transparent

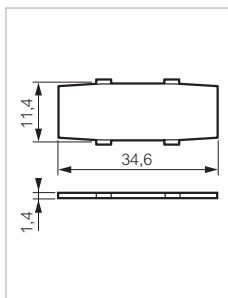
LIA7

TO BE ENGRAVED

Large model



LIB9



2 lines maximum
18 characters per line
For round frame cat. no. LWG3 (p. 69)

Without engraving

- White
- Red
- Alu
- Black

LIB5
LIB1
LIB9
LIB3

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- White - black engraving
- Red - white engraving
- Alu - black engraving
- Black - white engraving

LIB5□□□
LIB1□□□
LIB9□□□
LIB3□□□

Protective mask for legend plate (paper or other ...)

- Transparent

LIB7

Accessories ø 22

 Characteristics (p. 94)

▶ LEGEND PLATES

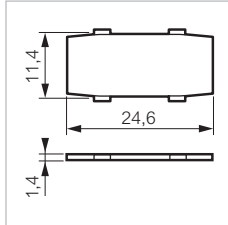
ENGRAVED

Small model

Cat. No.



LIA9081



Alu legend plate, black engraving
For round and square frames cat. nos. LWP3, LWP4 et LWP2 (p. 69)

With standard engraving

O-I	LIA9081
I-II	LIA9082
I-O-II	LIA9091
MANU-O-AUTO	LIA9191
HAND-O-AUTO	LIA9291
START	LIA9301
ON	LIA9303
OFF	LIA9304
RESET	LIA9315
RUN	LIA9327
HAND-AUTO	LIA9383

On demand engraving (p. 70)

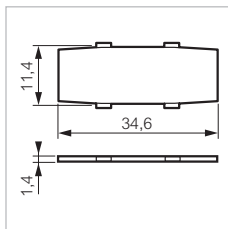
Symbol code to be added at the end of the catalogue number **LIA9□□□**

ENGRAVED

Large model



LIB9382



Alu legend plate, black engraving
For round frame cat. no. LWG3 (p. 69)

OFF-ON	LIB9382
O-I-START	LIB9093

Accessories ø 22

 Characteristics (p. 94)

▶ FRAMES

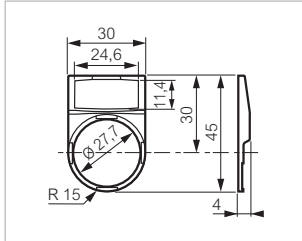
ROUND

Standard model

Cat. No.



LWP3



For legend plates cat. nos. LIA5, LIA1, LIA 9, LIA 3 (p. 67)

- Black

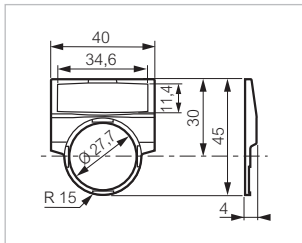
LWP3

ROUND

Large model



LWG3



For legend plates cat. nos. LIB5, LIB1, LIB 9, LIB 3 (p. 67)

- Black

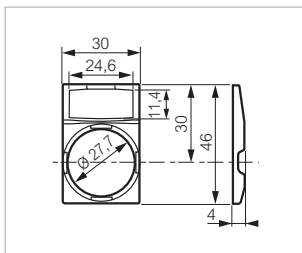
LWG3

SQUARE

Standard model



LWP4



For legend plates cat. nos. LIA5, LIA1, LIA 9, LIA 3 (p. 67)

- Black

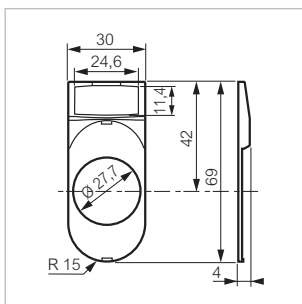
LWP4

FOR DOUBLE AND TRIPLE TOUCH

Standard model



LWP2



For legend plates cat. nos. LIA5, LIA1, LIA 9, LIA 3 (p. 67)

- Black

LWP2

Engravings

Symbol code to be added at the end of the catalogue number

▶ STANDARD TEXTS

UNIVERSAL TEXT

Cat. No.

For selector switches and legend plates

O-I	081
I-II	082
I-O-II	091
I-II-III	092
O-I-START	093
O-I-II	094

ENGLISH TEXT

For buttons, pilot lights and legend plates

CLOSE	314
DOWN	336
FAST	310
FORWARD	305
INCH	329
JOG	328
LEFT	311
LOWER	308
OFF	304
ON	303
OPEN	313
POWER-ON	330
RAISE	307
RESET	315
REVERSE	306
RIGHT	312
RUN	327
SLOW	309
START	301
STOP	302
UP	335

For selector switches and legend plates

FORW.-OFF-REV.	392
HAND-AUTO	383
HAND-OFF-AUTO	391
LOCAL-OFF-REMOTE	393
OFF-ON	382
STOP-START	381

Engravings

Symbol code to be added at the end of the catalogue number

▶ STANDARD TEXTS (CONTINUED)

GERMAN TEXT

Cat. No.

For buttons, pilot lights and legend plates

AB	208
AUF	207
AUS	204
BETRIEB	224
BREMSEN	225
EIN	203
EINRICHTEN	223
FEINHEBEN	221
FEINSENKEN	222
HALT	202
HEBEN	219
LANGSAM	209
LINKS	211
RECHTS	212
RÜCKWÄRTS	206
SENKEN	220
SCHNELL	210
VORWÄRTS	205
VORRÜCKEN	226
ZU	214

For selector switches and legend plates

AUS-EIN	281
HAND-AUTO	283
HAND-O-AUTO	291
ZURÜCK-O-VOR	292

FRENCH TEXT

For buttons, pilot lights and legend plates

ALARME	133
ARRÊT	102
ARRÊT GÉNÉRAL	116
ARRIÈRE	106
AVANT	105
DÉCLENCHEMENT	131
DÉFAUT	132
DESCENTE	108
DROITE	112
EN SERVICE	103
FERMETURE	114
GAUCHE	111
HORS SERVICE	104
KLAXON	118
LENT	109
MARCHE	101
MONTÉE	107
OUVERTURE	113
RÉARMEMENT	115
SOUS TENSION	117
VITE	110


















For selector switches and legend plates

ARRÊT-MARCHE	181
AVANT -O- ARRIÈRE	192
C.P.C.-NORMAL	184
HORS-EN	182
MANU-AUTO	183
MANU -O- AUTO	191

Symbols

Symbol code to be added at the end of the catalogue number










STANDARD SYMBOLS ISO/DIN

Description	Symbol	Cat. No.
Continuous straight-line movement ISO 1		A01
Alternating straight-line movement ISO 5		A05
Continuous rotating movement clockwise ISO 7A - DIN 100		A07
Continuous rotating mov. anti-clockwise ISO 7B		B07
Forward ISO 16		A16
Increase in value ISO 28		A28
Decrease in value ISO 29		A29
Adjustable ISO 62		A62
Clamp, block apply pressure ISO 63A		A63
Clamp, block apply pressure ISO 63B		B63
Unclamp, release ISO 64A		A64
Unclamp, release ISO 64B		B64
Brake ISO 65		A65
Release brake ISO 66		A66
Automatic cycle (or semi-automatic) ISO 67		A67
Manual control ISO 68		A68
"ON" close circuit ISO 69		A69
"STOP" close circuit ISO 70		A70
ON/OFF close + open circuit ISO 71		A71
Close circuit manual impulse ISO 72		A72
Clutch ISO 74 - DIN 46		A74










Symbols

Symbol code to be added at the end of the catalogue number

▶ STANDARD SYMBOLS ISO/DIN (CONTINUED)

Description	Symbol	Cat. No.
De-clutch ISO 75 - DIN 45		A75
Warning "live" (energized) ISO 92 - DIN 131		A92
Main switch ISO 94		A94
Lubrication jet ISO 101		C01
Machine lighting ISO 102 - DIN 139		C02
Greasing ISO 107 - DIN 175		C07
Blow ISO 108 - DIN 263		C08
Suction ISO 109 - DIN 264		C09
Sound alarm DIN 155		D01

▶ ADDITIONAL STANDARD SYMBOLS

Symbol	Cat. No.
	B01
	E01
	F01
	B62
	E62
	F62
	003
	004
	005

Catalogue No. in bold: normally in stock at distribution outlets

Accessories ø 22

 Characteristics (p. 94)

▶ BUTTON PLATES - FOR HEADS WITHOUT BUTTON PLATE

NON ILLUMINATED

Cat. No.



LT05

For use with spring return button cat. no. L21AA00 (p. 21)

Without engraving

● Red	LT01
● Green	LT02
● Black	LT03
● Yellow	LT04
○ White	LT05
● Blue	LT06

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

● Red	LT21□□□□
● Green	LT22□□□□
● Black	LT23□□□□
● Yellow	LT24□□□□
○ White	LT25□□□□
● Blue	LT26□□□□

ILLUMINATED



LT20

For use with spring return button cat. no. L21AH00 (p. 37)

Without engraving

● Red	LT10
● Green	LT20
● Yellow	LT40
○ White	LT50
● Blue	LT60

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

● Red	LT31□□□□
● Green	LT32□□□□
● Yellow	LT34□□□□
○ White	LT35□□□□
● Blue	LT36□□□□

Accessories ø 22

 Characteristics (p. 94)

► SHROUDS - REINFORCED DEGREE OF PROTECTION: IP 67

FOR PUSH-BUTTONS PROJECTING

Cat. No.



LWA0203

For spring return or stay-put buttons

○ Transparent

LWA0228

For non illuminated spring return buttons

- Red opaque
- Green opaque
- Black opaque

LWA0203
LWA0204
LWA0205

FOR PUSH-BUTTONS FLUSH



LWA0253

For spring return or stay-put buttons

○ Transparent

LWA0255

For non illuminated spring return buttons

- Red opaque
- Green opaque
- Black opaque

LWA0251
LWA0252
LWA0253

DOUBLE TOUCH



LWA0223

For double touch flush-projecting and triple touch

○ Transparent

LWA0223

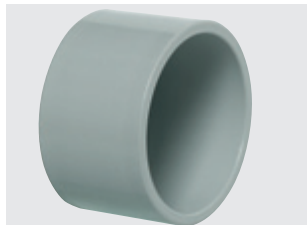
Accessories ø 22

 Characteristics (p. 94)

► MISCELLANEOUS

GUARD

Cat. No.



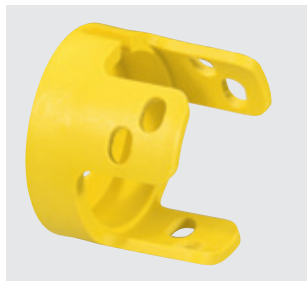
LWA0225

For spring return button and spring return mushroom head (maxi ø 40)

- Grey

LWA0225

PADLOCKABLE GUARD



LWA0240

For stay-put mushroom head

- Yellow

High (Height: 40 mm)

LWA0240

SQUARE FRAME



LWA0230

For turning a round shape button or a pilot light into a square shape

- Black

LWA0230

RELAY TERMINAL (EARTH OR NEUTRAL)



LWA0216

For control station
Base mounted

LWA0216

Accessories ø 22

 Characteristics (p. 94)

► MISCELLANEOUS (CONTINUED)

BULBS Cat. No.



LWDN230

For one-piece pilot light with direct supply
Bulb BA9S (see p. 45)

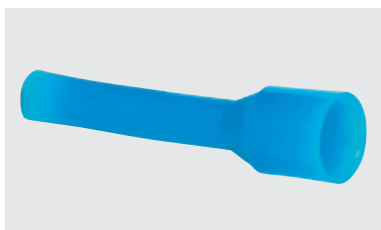
Neon 230 V
For red, yellow, white pilot light

LWDN230

Neon 230 V
For green pilot light

LWDF230

BULB EXTRACTOR



LWA0201

For BA9S bulbs

LWA0201

ANTI-ROTATION RING



LWA0237

For selector switches

LWA0237

BLANKING PLUG



LWA0229

- Black
- Grey

LWA0229
LWA0215

Accessories ϕ 22

 Characteristics (p. 94)

► MISCELLANEOUS (CONTINUED)

FIXING TOOL

Cat. No.

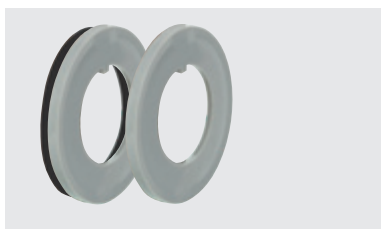


Fixing tool for locking ring

LWA0234

LWA0234

REDUCTION RING ϕ 30/22



Converts ϕ 30 mm cut-out to 22 mm hole

● Grey

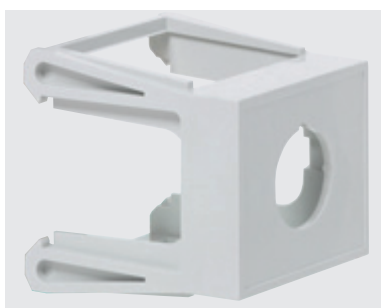
LWA0219

● Yellow

LWA0220

LWA0219

PUSH BUTTON SUPPORT CLIP-ON TO DIN RAIL



For pilot lights, spring return buttons and selector switches

LWA0238

LWA0238

PADLOCKABLE SHROUD



For spring return push-buttons

LWA0226

LWA0226

Request form for specific control and signalling units ø 22

▶ HEAD (fill in one form for each type of product)

Type :

- Spring return flush
- Spring return super flush
- Spring return projecting
- Mushroom head spring return
- Push-push stay-put
 - Flush
 - Projecting
- Push-push super flush
- Mushroom head push-pull stay-put
- Mushroom head push-pull with flag indicator
- Mushroom head push-turn stay-put
- Mushroom head with key
- Selector switch handle
- Selector switch with long handle
- Selector switch with key
 - 455
 - 1421 A
 - Other
- Knob selector switch
- Double touch
 - flush-flush
 - flush-proj.
 - Triple touche
- Mechanical actuator
 - Flush
 - Projecting
- Pilot light
- One-piece pilot light
 - LED (specify colour, voltage)
 - Bags

Options :

- Illuminated button
- EN 418/ISO 13850 emergency stop
- IP 67 shroud
- Black frame
- Guard for buttons
- Guard for mushroom heads

Size (mm):

Mushroom head Ø 32 Ø 40 Ø 70

Colour :

- Colourless Green
- Black Red
- White Blue
- Yellow

Bezel :

- black
- matt chromed

▶ **ENGRAVINGS**

Fill in the grid (see below)

on head

- standard text or symbol
- other text (2 x 8 characters)

on legend plate :

- standard (2 x 13 characters)
- large model (2 x 18 characters)

Ground colour:

- white
- red
- alu
- black

▶ BLOCKS AND CLIPS

Type of block

- ① NO
- ② NC
- ③ NO/NC
- ④ Transformer
- ⑤ Filter
- ⑥ Junction
- ⑦ Empty
- ⑧ Lamp-test
- ⑨ LED

Voltage: 24 V 130 V 230 V

Colour: red green yellow white blue

Connection :

- Screw
- Faston
- Plug-in
- Pin-Style (for PCB)

Clips :

- 1 position

1

- 3 positions

1	3	2
---	---	---
- 5 positions

5	1	3	2	4
---	---	---	---	---
- 6 positions

1	3	2
---	---	---

Options :

- Head, block and clip assembled

YOUR DETAILS

Company:

.....

Name and surname:

.....

Address:

.....

E-mail :

Tel.:

Fax:

COMMENTS

ENGRAVING

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

▶ SELECTOR SWITCHES' SWITCHING ANGLE

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Key free in position : 0 1 2 other (attach diagram)

Control stations

solution boxes



Control stations with mushroom heads
pre-assembled



Control stations with buttons
1, 2 or 3 buttons

► ADVANTAGES

"All types of control station applications can be achieved"

- Multipurpose, pre-equipped with mushroom head or pushbuttons
- Enclosures for custom assembly 1,2,3,4 or 5 holes
- Up to 3 blocks per position
- Innovative design



Enclosures
1, 2, 3, 4 or 5 holes

► **SPECIAL REQUEST**


Custom assemblies and engraving options



See page 90

Control stations \varnothing 22

IP 66
 Base mounted contact- screw terminals
 Conform to IEC 60947-5-1
 Marking on control station
 Frames and legend plates (p. 66)
 Special engraving on enclosure and mounting (form p. 90)

 Characteristics (p. 94)
 Cross reference list (p. 311)

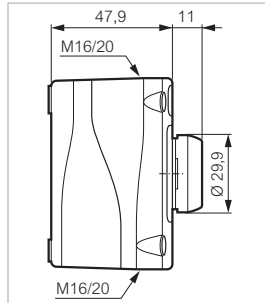
▶ CONTROL STATIONS WITH 1 BUTTON - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



LBX10110



● Green NO $\frac{13}{21} \frac{14}{22}$
 ● Red NC

Marking

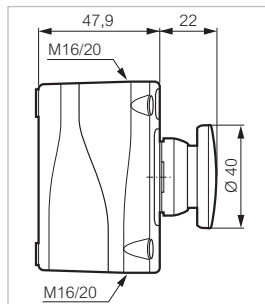


LBX10110
LBX10610

MUSHROOM HEAD \varnothing 40 - SPRING RETURN



LBX10210



● Red NC $\frac{21}{22}$

Marking

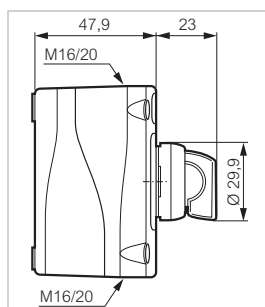


LBX10210

SELECTOR SWITCH - WITH HANDLE



LBX12510



2 stay-put positions - 45°
 ● Black NO $\frac{13}{21} \frac{14}{22}$


Marking



LBX12510

Control stations Ø 22

IP66
 Base mounted contact- screw terminals
 Conform to IEC 60947-5-1
 Marking on control station
 Frames and legend plates (p. 66)
 Special marking and mounting (form p. 90)

 Characteristics (p. 94)
 Cross reference list (p. 311)

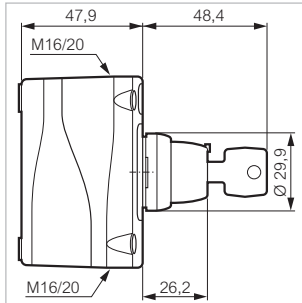
▶ CONTROL STATIONS WITH 1 BUTTON (CONTINUED)

SELECTOR SWITCH - WITH KEY

Cat. No.



LBX12610



Supplied with 2 keys profile n° 455

2 stay-put positions - 45°
 Key free in position 0-1

● Black NO 

Marking

○
I

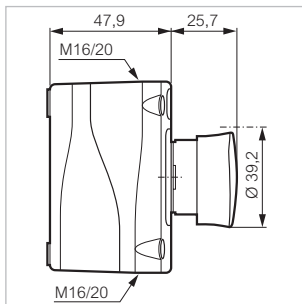
LBX12610




MUSHROOM HEAD Ø 40 - STAY-PUT

Push-turn to reset



LBX10510



● Red NC 
 ● Red NC 
 ● Red NC 

ARRÊT D'URGENCE
 NOT AUS
 EMERGENCY STOP

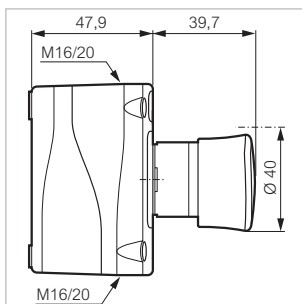
LBX10310
LBX10410
LBX10510

Contact blocks fixed behind cover (form p. 90)


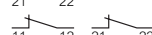

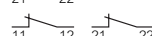

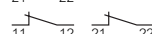
MUSHROOM HEAD Ø 40 EN 418/ISO 13850 - STAY-PUT Push-turn to reset



LBX17201



Compliant with the requirements of emergency stop:
 IEC 60947-5-5 / EN 418/ISO 13850

● Red NC 
 ● Red 2 NC 
 ● Red NC 
 ● Red 2 NC 
 ● Red NC 
 ● Red 2 NC 

ARRÊT D'URGENCE
 ARRÊT D'URGENCE
 NOT AUS
 NOT AUS


LBX17101
 LBX17102
 LBX17201
 LBX17202

EMERGENCY STOP
 EMERGENCY STOP

Contact blocks fixed behind cover (form p. 90)

Control stations Ø 22

IP 66
 Base mounted contact-screw terminals
 Conform to IEC 60947-5-1
 Marking on control station
 Frames and legend plates (p. 66)
 Special engraving and mounting (form p. 90)

 Characteristics (p. 94)
 Cross reference list (p. 311)

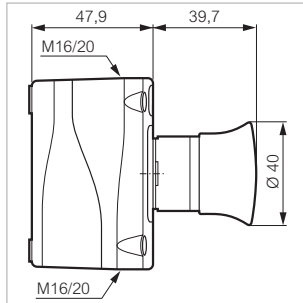
► CONTROL STATIONS WITH 1 BUTTON (CONTINUED)

MUSHROOM HEAD Ø 40 EN 418/ISO 13850 - STAY-PUT Push-pull to reset


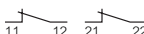

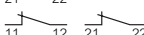

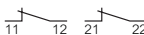
Cat. No.



LBX15101



Compliant with the requirements of emergency stop: IEC 60947-5-5 / EN 418/ISO 13850

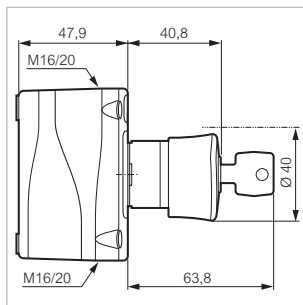
● Red	NC		ARRÊT D'URGENCE	LBX15101
● Red	2 NC		ARRÊT D'URGENCE	LBX15102
● Red	NC		NOT AUS	LBX15201
● Red	2 NC		NOT AUS	LBX15202
● Red	NC		EMERGENCY STOP	LBX15301
● Red	2 NC		EMERGENCY STOP	LBX15302

Contact blocks fixed behind cover (form p. 90)


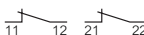

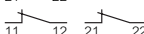

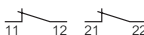
MUSHROOM HEAD Ø 40 EN 418/ISO 13850 - STAY-PUT Key to reset



LBX11302



Compliant with the requirements of emergency stop: IEC 60947-5-5 / EN 418/ISO 13850
 Supplied with 2 keys profile n° 455

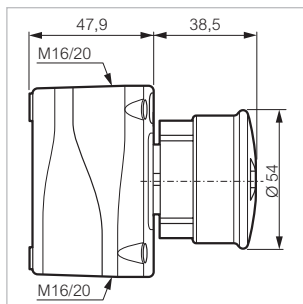
● Red	NC		ARRÊT D'URGENCE	LBX11101
● Red	2 NC		ARRÊT D'URGENCE	LBX11102
● Red	NC		NOT AUS	LBX11201
● Red	2 NC		NOT AUS	LBX11202
● Red	NC		EMERGENCY STOP	LBX11301
● Red	2 NC		EMERGENCY STOP	LBX11302

Contact blocks fixed behind cover (form p. 90)



MUSHROOM HEAD Ø 54 EN 418/ISO 13850 - STAY-PUT Push-pull to reset with flag indicator



LBX14201




Compliant with the requirements of emergency stop: IEC 60947-5-5 / EN 418/ISO 13850
 Double position indicator: head and collar

● Red	NC		STOP - 	LBX14201
● Red	2 NC		STOP - 	LBX14202

Contact blocks fixed behind cover (form p. 90)

Control stations ø 22

IP 66
 Base mounted contact- screw terminals
 Conform to IEC 60947-5-1
 Marking on control station
 Frames and legend plates (p. 66)
 Special engraving and mounting (form p. 90)

 Characteristics (p. 94)
 Cross reference list (p. 311)

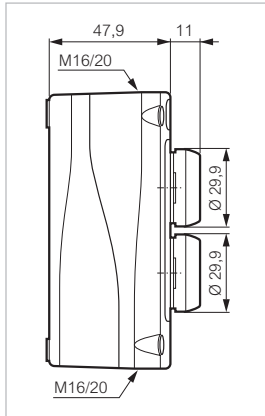
▶ CONTROL STATIONS WITH 2 BUTTONS

SPRING RETURN - FLUSH

Cat. No.



LBX20120



● Green
 ● Red

NO
 NC



Marking



LBX20120

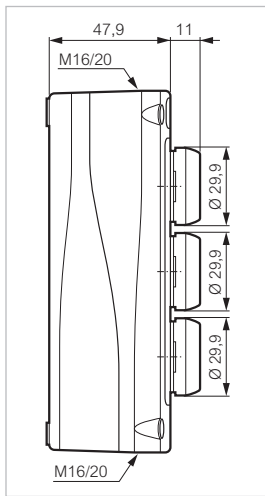
▶ CONTROL STATIONS WITH 3 BUTTONS

SPRING RETURN - FLUSH

Cat. No.



LBX30430



● Green
 ● Red
 ● Green

NO
 NC
 NO




LBX30430

Control stations with 4 or 5 buttons (form p. 90)

Control stations \varnothing 22

Empty enclosures to be equipped with:
 - illuminated or non illuminated heads p. 21-45
 - specific blocks for control stations (base mounted) p. 62
 - frames and legend plates p. 66
 Other control stations to be equipped (form p. 90)

 Characteristics (p. 94)
 Cross reference list (p. 311)

► ENCLOSURES

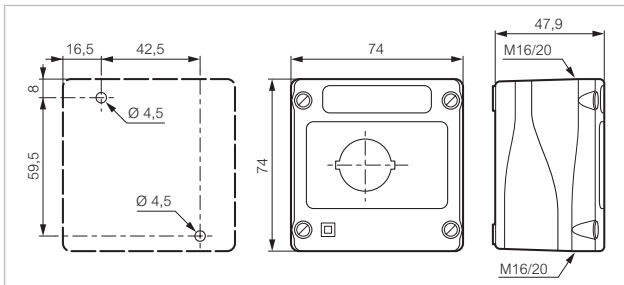
1 HOLE Cat. No.



Black base
 ● Grey cover
 ● Yellow cover

LBX0100
LBX0100J

LBX0100J



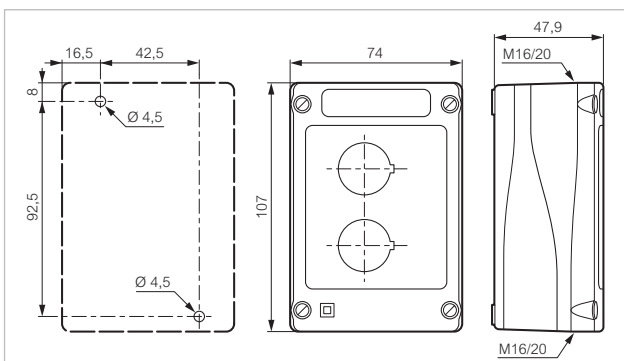
2 HOLES Cat. No.



Black base
 ● Grey cover
 ● Yellow cover

LBX0200
LBX0200J


LBX0200



Catalogue No. in bold: normally in stock at distribution outlets

Control stations \varnothing 22

Empty enclosures to be equipped with:
 - illuminated or non illuminated heads p. 21-45
 - specific blocks for control stations (base mounted) p. 62
 - frames and legend plates p. 66
 Other enclosures (form p. 90)

 Characteristics (p. 94)
 Cross reference list (p. 311)

► ENCLOSURES (CONTINUED)

3 HOLES

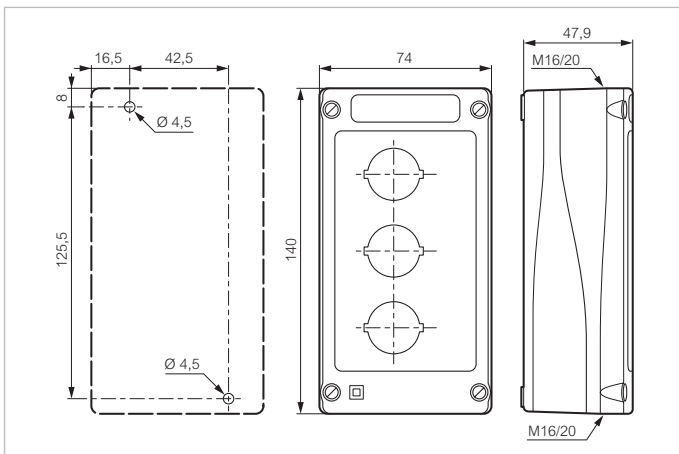
Cat. No.



LBX0300


Black base
 ● Grey cover

LBX0300



Control stations \varnothing 22

Empty enclosures to be equipped with:
 - illuminated or non illuminated heads p. 21-45
 - specific blocks for control stations (base mounted) p. 62
 - frames and legend plates p. 66
 Other enclosures (form p. 90)

 Characteristics (p. 94)
 Cross reference list (p. 311)

► ENCLOSURES (CONTINUED)

4 HOLES

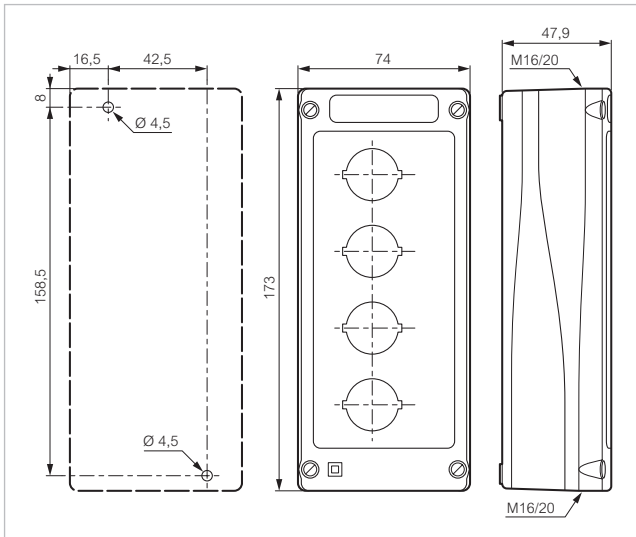
Cat. No.



Black base
 ● Grey cover


LBX0400

LBX0400



Control stations \varnothing 22

Empty enclosures to be equipped with:
 - illuminated or non illuminated heads p. 21-45
 - specific blocks for control stations (base mounted) p. 62
 - frames and legend plates p. 66
 Other enclosures (form p. 90)

 Characteristics (p. 94)
 Cross reference list (p. 311)

► ENCLOSURES (CONTINUED)

5 HOLES

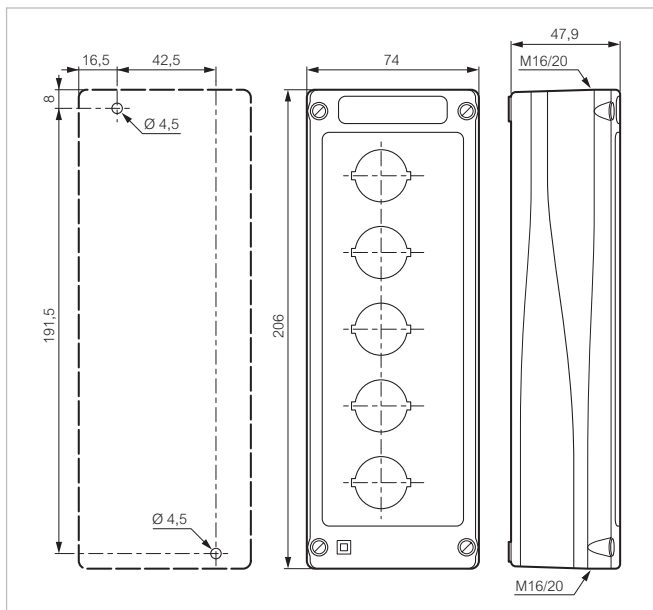
Cat. No.



Black base
 ● Grey cover

LBX0500

LBX0500



Request form for specific control station ø 22

EQUIPPED CONTROL STATION (fill in one form for each type of product)

Mounting: horizontal vertical

Unit type : 1 hole 2 holes 3 holes 4 holes 5 holes
 yellow cover (only 1 hole)

Choice of head: (write the corresponding number in the table)

- | | | | | |
|---|----|----|--|-------------------------------------|
| 1 | 8 | 13 | 1 Spring return flush | 8 Mushroom head push-turn stay-put |
| 2 | | | 2 Push-push stay-put flush | 9 Mushroom head with key |
| 3 | 9 | 14 | 3 Spring return projecting | 10 Selector switch with handle |
| 4 | | 15 | 4 Push-push stay-put projecting | 11 Selector switch with long handle |
| 5 | 10 | | 5 Mushroom head spring return | 12 Knob selector switch |
| 6 | 11 | | 6 Mushroom head push-pull stay-put | 13 Key selector switch |
| 7 | | 16 | 7 Mushroom head ø 54 push-pull with flag indicator | 14 Double touch |
| | | | | 15 Triple touch |
| | | | | 16 Pilot light |

Please fill in the table below

Head no.	Heads									Blocks												
	Illuminated	COLOUR					BEZEL			IP 67 shroud	ø 54 EN 418/ISO13850	ø 40	ø 32	ø 32 EN 418/ISO13850	NO	NC	illuminated with LED	LED VOLTAGE				
		Green	Black	Red	White	Blue	Yellow	Black plastic	Matt chromed									Extended	24 V	130 V	230 V	

Earth terminal Contact fixed behind the cover

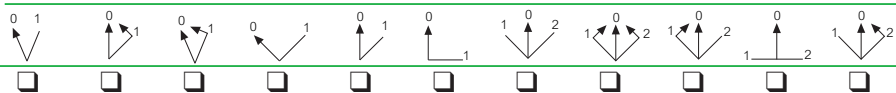
Marking:

Function Max. 14 characters on 1 line

	On head	On control station ⁽¹⁾	On legend plate ⁽²⁾	Colour			
				BLACK	RED	ALU	WHITE
	<input type="text"/>						
	<input type="text"/>						
	<input type="text"/>						
	<input type="text"/>						
	<input type="text"/>						

(1) 3 characters on 3 lines for vertical marking and max. 13 characters on 2 lines for horizontal marking
 (2) max. 2 lines of 6 characters

SELECTOR SWITCHES' SWITCHING ANGLE



Key free in position : 0 1 2 other (attach diagram)

Specify the concerned buttons:

YOUR DETAILS

Company:

Name and surname:

Address:

E-mail :

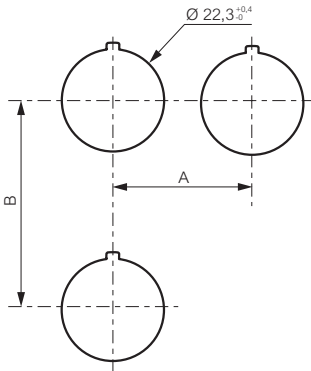
Tel.:

Fax:

COMMENTS

Panel cut-out

DRILLING

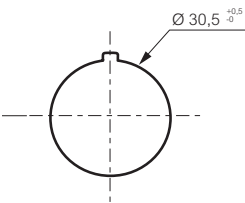


For heads equipped with electrical blocks with screw or plug-in terminals

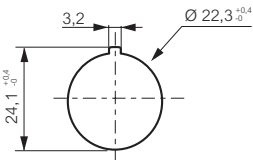
Minimum interval (mm)

	= 30	With or without legend (usual case)
	= 33	IP 67 (silicon shroud)
	= 40	With large legend plate
A	> 40	For mushroom head \varnothing 40
	> 45	For selector switch with long handle
	= 38	For super-flush button
	= 50	With 5 position clip
B	= 45	With or without legend plate (usual case)
	= 54	With double touch
	= 77	With double touch + legend plate
	= 50	Joystick

DRILLING FOR SUPER-FLUSH BUTTON

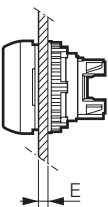


DRILLING WHEN USING THE ANTI-ROTATION RING (OPTIONAL)



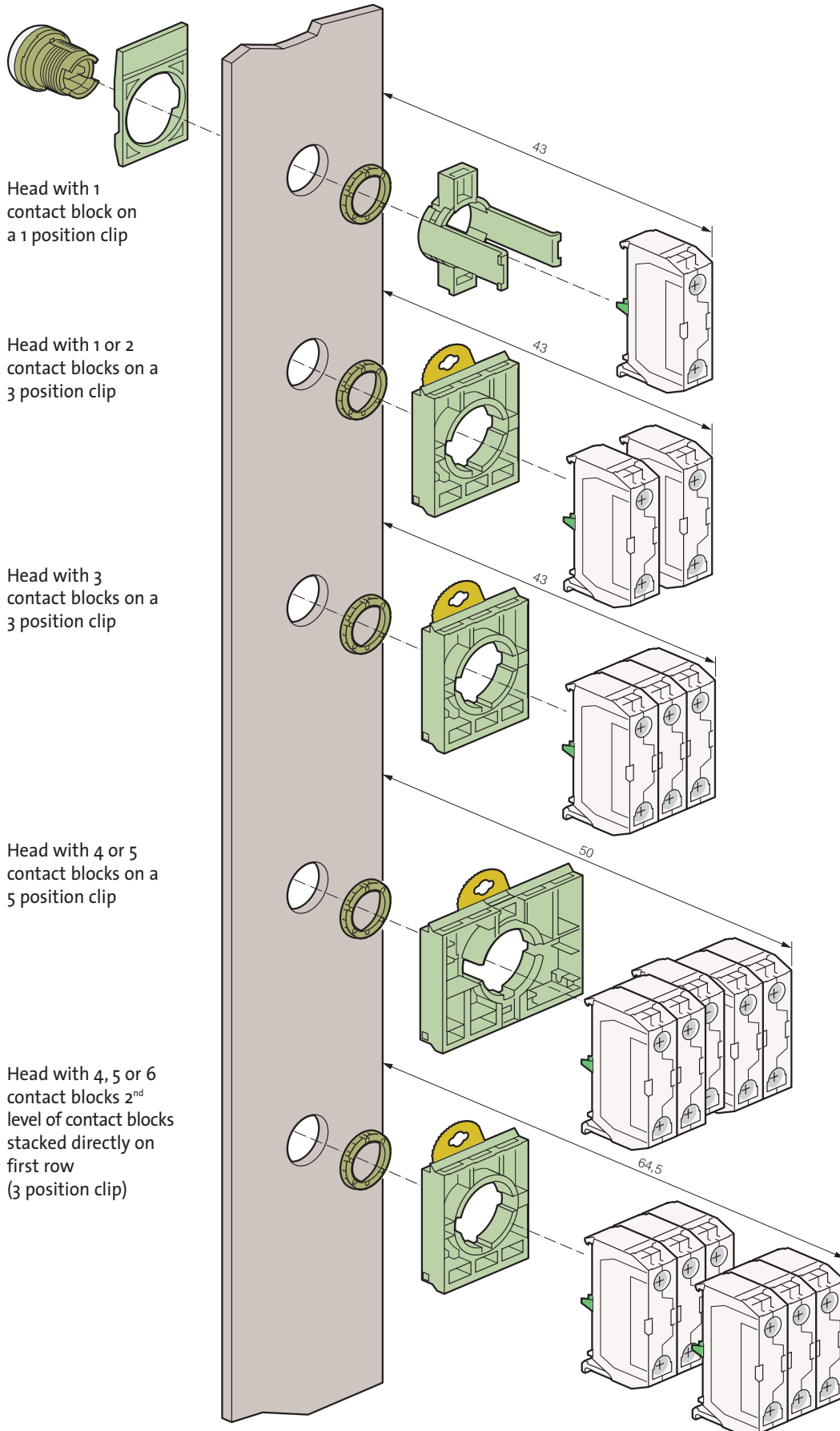
THICKNESS OF PANEL (E)

E = 1 to 6 mm



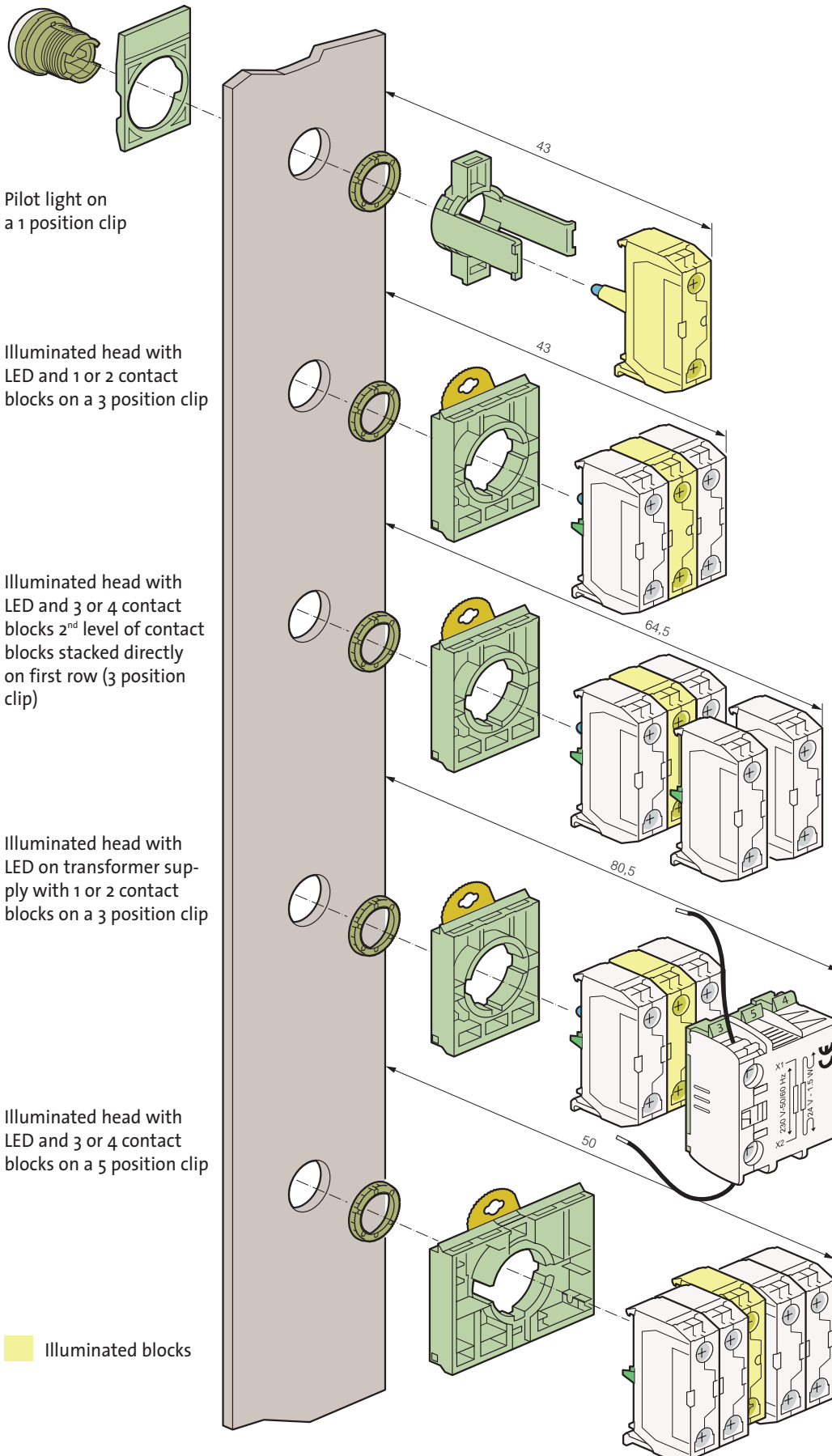
Mounting blocks ϕ 22

NON ILLUMINATED



Mounting blocks ϕ 22

ILLUMINATED



Technical characteristics

▶ GENERAL

Characteristics	Data	Standards
▶ Storage temperature	- 40 °C to + 70 °C	
▶ Operating temperature	- 25 °C to + 70 °C	
▶ Climatic resistance	Constant humid heat Cyclic damp heat Resistance to sea air	IEC 60068-2-3 IEC 60068-2-30 IEC 60068-2-52
▶ Degree of protection	IP 66 for standard heads IP 67 for shrouded heads IP 66 for equipped control stations IP 20 at the rear of the panel for contact blocks and one piece pilot lights Type 1, 2, 3, 3R, 3S, 4, 4X, 12, and 13 for heads and control stations	IEC 60529 NEMA standard
▶ Protection against mechanical impacts	IK 05 illuminated and non illuminated heads IK 07 empty control station	IEC 62262
▶ Electrical insulation	Class II - heads and control station	IEC 60947-5-1
▶ Terminal marking		IEC 60947-1
▶ Tightening torques	Locking ring: recommended 3 N.m terminals: max. 1.2 N.m	
▶ Approvals	UL United states and Canada BV Bureau Véritas Certification OC/CB	UL 508, CSA 22.2 Marine rules IEC 60947-5-1 IEC 60947-5-5 IEC 60947-5-4
▶ Vibrations	withstand vibration Fc test: 2 to 25 Hz, 1.6 mm; 25-100 Hz, 4 g	IEC 60068-2-6

Technical characteristics

▶ CONTACT BLOCKS

Screw and plug-in connection characteristics	Data	Standards	
▶ Rated insulation voltage	690 V AC 600 V AC	IEC/EN 60947-1 UL 508	
▶ NC contacts	Positive opening	IEC/EN 60947-5-1	
▶ Rated impulse voltage Uimp Pollution degree	6kV 3		
▶ Conventional thermal current in free air conditions	AC15: 10 A DC13: 2,5 A	IEC 60947-5-1	
▶ Electrical ratings	<p>Alternating current AC15 - A 600 Ue = 120 V, Ie = 6 A Ue = 240 V, Ie = 3 A Ue = 380 V, Ie = 1,9 A Ue = 480 V, Ie = 1,5 A Ue = 500 V, Ie = 1,4 A Ue = 600 V, Ie = 1,2 A</p> <p>Minimum operating current - standard blocks Ue = 24 V DC and Ie = 5 mA Failure rate < 10⁻⁸</p>	<p>Direct current DC13 - Q 600 Ue = 125 V, Ie = 0,55 A Ue = 250 V, Ie = 0,27 A Ue = 400 V, Ie = 0,15 A Ue = 500 V, Ie = 0,13 A Ue = 600 V, Ie = 0,1 A</p> <p>- golden contacts Ue = 5 V DC and Ie = 1 mA Failure rate < 10⁻⁸</p>	IEC 60947-5-1
▶ Electrical operating life	<p>1 million cycles for: - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A</p> <p>- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A</p>		
▶ Applicable wire sizes	Rigid or flexible wire without ferrule: 0,5 mm ² to 2 x 2,5 mm ² Rigid or flexible wire with ferrule: 0,5 mm ² to 2 x 1,5 mm ²		
Faston connection	Data	Standards	
▶ Rated insulation voltage	320 V AC 300 V AC	IEC/EN60947-1 UL 508	
▶ NC contacts	Positive opening	IEC/EN 60947-5-1	
▶ Rated impulse withstanding voltage Uimp Pollution degree	6 kV 3		
▶ Conventional thermal current in free air conditions	AC 15: 10 A DC 13: 2,5 A	IEC 60947-5-1	
▶ Electrical ratings	<p>Alternating current AC15 - A 300 Ue = 120 V, Ie = 6 A Ue = 240 V, Ie = 3 A</p> <p>Minimum current of use Ue = 24 V DC and Ie = 5 mA Failure rate < 10⁻⁸</p>	<p>Direct current DC13 - Q 300 Ue = 125 V, Ie = 0,55 A Ue = 250 V, Ie = 0,27 A</p> <p>- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A</p>	IEC 60947-5-1
▶ Electrical operating life	<p>1 million cycles for: - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A</p> <p>- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A</p>		
▶ Faston size	6,35 mm or 2 x 2,8 mm		

Technical characteristics

▶ CONTACT BLOCKS

Pin-style connection (for PCB)	Data	Standards	
▶ Rated insulation voltage	250 V AC 250 V AC	IEC/EN60947-1 UL 508	
▶ NC contacts	Positive opening	IEC/EN 60947-5-1	
▶ Rated impulse withstanding voltage Uimp Pollution degree	4 kV 3		
▶ Conventional thermal current in free air conditions	AC 15: 5 A DC 13: 1 A	IEC 60947-5-1	
▶ Electrical ratings	Alternating current AC 15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A Minimum current of use - standard blocks Ue = 24 V DC and Ie = 5 mA Failure rate < 10 ⁻⁸	Direct current DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A - golden contacts Ue = 5 V DC and Ie = 1 mA Failure rate < 10 ⁻⁸	IEC 60947-5-1 IEC 60947-5-4
▶ Electrical operating life	1 million cycles for: - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A	- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A	
▶ Pin diameter	∅ 1 mm		

▶ LED BLOCKS FOR ILLUMINATED HEADS AND ONE PIECE LED PILOT LIGHTS

Characteristics	Data	Standards
▶ Rated insulation voltage	300 V	IEC/EN 60947-5-1
▶ Rated impulse voltage Uimp Pollution degree	4 kV (with filter block see p. 64) 3	IEC/EN 60947-1
▶ Operating voltage	12 to 24 V AC/DC 48 V AC/DC (for LED block) 130 V AC 230 V AC	
▶ Frequency	50 or 60 Hz	
▶ Lifetime at rated supply voltage	Red and yellow: 100 000 hours at 25 °C Other colours: 50 000 hours at 25 °C	
▶ Consumption of LED blocks	Voltage: - 24 V: 25 mA ± 20% - 48 V: 15 mA ± 5% - 130 V: 20 mA ± 10% - 230 V: 16 mA ± 30%	

Technical characteristics

▶ ONE PIECE PILOT LIGHT BA9S

Characteristics	Data	Standards
▶ Rated insulation voltage	400 V	IEC 60947-5-1
▶ Rated impulse withstand voltage Uimp	4 kV	IEC/EN 60947-1
▶ Bulb rating	400 V max. - 2,6 W max. 240 V max. - 2,6 W max.	IEC 60947-5-1 UL 508

▶ HEADS

Characteristics	Data	Standards
▶ Mechanical endurance (in million cycles)	Spring return: 5 Push-push: 0,5 Selector switches: 0,3 Mushroom head maintained function EN 418: 0,10 Mushroom head maintained function: 0,15	
▶ Activation force in N	Spring return + NO: 6,5 Spring return + NC: 4,5 Additional NO contact: 4,5 Additional NC contact: 3,0 Push-pull mushroom head + NO + NC: 27 Push-turn mushroom head + NO + NC: 22 Push-pull mushroom head EN 418 + NO + NC: 37 Push-turn mushroom head EN 418 + NO + NC: 60	
▶ Activation force in Nm	Selector switch + NO: 0,04 Additional NO contact: 0,03	

▶ EMERGENCY STOP ACTUATORS - EN 418/ISO 13850:

According to IEC/EN60947-5-5, the emergency stop function can be provided by an EN418/ISO13850 mushroom head combined with a "positive opening" NC contact block.

The mechanism of our EN418/ISO13850 mushroom heads is so designed that a "push" action of sufficient force to open the contact systematically triggers an irreversible locking of this opening. This generates an "emergency stop" signal which can be cancelled only by deliberate manual resetting of the mushroom head (pull and turn or unlocking by key).

This function allows to generate an "emergency stop" signal for any equipment subject to directive 98/37CE (machinery safety) completed by the IEC 60204-1 standard.

The EN418/ISO13850 mushroom heads also comply with the safety requirements detailed in standards EN418 and ISO13850.

Diagrams

MECHANICAL OPERATION

For 3 position selector switches

Handle position
(front side view)



Contacts block actuation
(back view)



Back side view

Non operated block



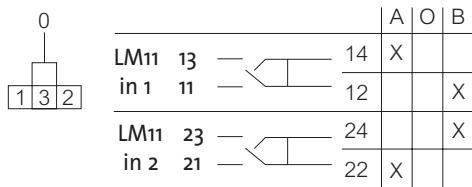
Operated block



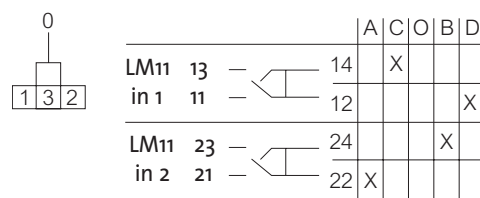
MECHANICAL OPERATION

For Joysticks

2 positions

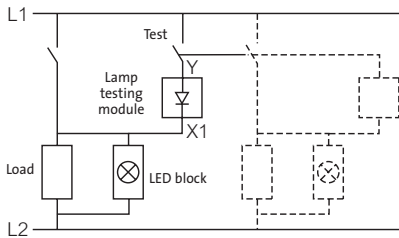


4 positions

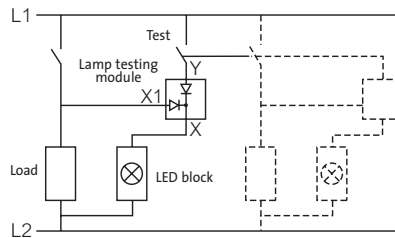


PUSH-TO-TEST LED PILOT LIGHT DIAGRAMS

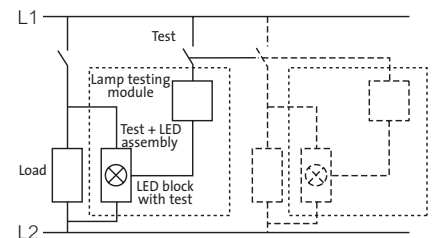
Lamp-testing module with
1 diode (33ET) for direct
supply 24 V and 48 V



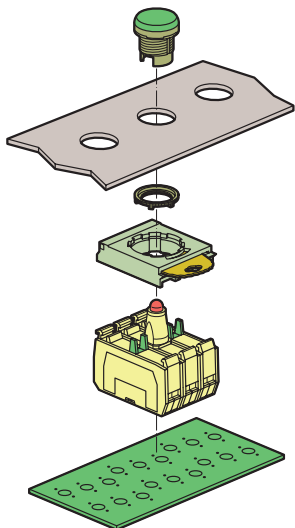
Lamp-testing module with
2 diodes (33ETT) for direct
supply 24 V and 48 V



Lamp-testing assembly
for direct supply 130 V and 240 V
(Consult us - see page 79)



PRINTED CIRCUIT BOARD MOUNTING



Ø 30 heads:

Baco simplifies your choice



--- **AA** --- definition of **function**

T16 AA --- choice of **bezel**

T16 AA **02** colour of head

▶ HEAD COLOUR CODES

01 ● red	04 ● yellow
02 ● green	05 ○ white
03 ● black	06 ● blue

▶ BEZEL CODES

T11	chrome brilliant plastic
T12	black plastic
T13	grey plastic
T14	Chrome brass
T16	Matt chrome plastic

▶ AVANTAGES

- Ø 30 heads use the same clips and blocks as Ø 22 heads
- Fully compatible with the new Ø 22 range
- Wide choice of bezels

Separate units \varnothing 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 48)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 117)

\varnothing 30 blocks use the same blocks and clips (except for the 5 position clip) as \varnothing 22 mm heads (see p. 48-65)

Conform to IEC 60947-5-1



Characteristics (p. 121)

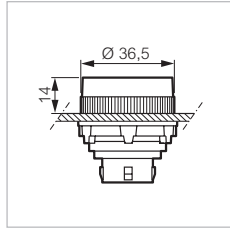
► PUSH-BUTTONS - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



T16AA01



Without engraving

- Red
- Green
- Black
- Yellow
- White
- Blue

- T16AA01
- T16AA02
- T16AA03
- T16AA04
- T16AA05
- T16AA06

With engraving

- ⦿ Red
- ⦿ Green
- ⦿ Black

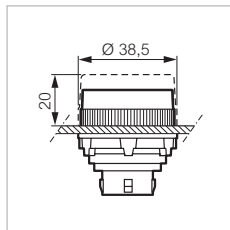
- T16AA81
- T16AA82
- T16AA83

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



T12AG03



Supplied with transparent shroud
Marking possible
(engravings and symbols p. 118 and p. 72)

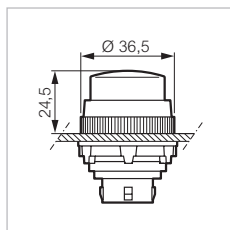
- Red
- Green
- Black
- Yellow
- White
- Blue

- T12AG01
- T12AG02
- T12AG03
- T12AG04
- T12AG05
- T12AG06

SPRING RETURN - PROJECTING



T16AB01



- Red
- Green
- Black
- Yellow
- White
- Blue

- T16AB01
- T16AB02
- T16AB03
- T16AB04
- T16AB05
- T16AB06

Separate units \varnothing 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 48)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 117)

\varnothing 30 blocks use the same blocks and clips (except for the 5 position clip) as \varnothing 22 mm heads (see p. 48-65)

Conform to IEC 60947-5-1



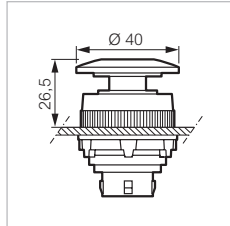
Characteristics (p. 121)

► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

SPRING RETURN - MUSHROOM HEAD \varnothing 40

Push

Cat. No.



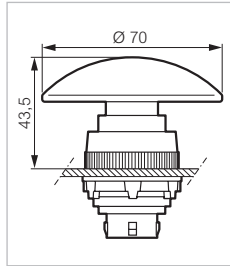
- Red
- Green
- Black
- Yellow

- T16AD01
- T16AD02
- T16AD03
- T16AD04

T16AD01

SPRING RETURN - MUSHROOM HEAD \varnothing 70

Push



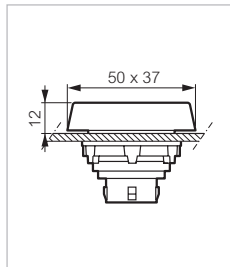
- Red - plastic
- Black - plastic
- Red - metallic

- T16AE01
- T16AE03
- T16AT01

T16AE01

SPRING RETURN - FLUSH-FLUSH

Double touch



Plastic black frame

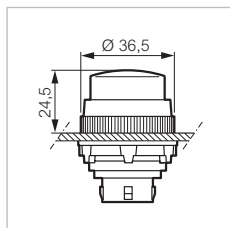
- Green
- Red
- Black
- Red

- T52QA02
- T52QA03

T52QA02

STAY-PUT - PROJECTING

Push-push



- Red
- Green
- Black
- Yellow
- White
- Blue

- T16CB01
- T16CB02
- T16CB03
- T16CB04
- T16CB05
- T16CB06

T16CB02

Separate units \varnothing 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 48)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 117)

\varnothing 30 blocks use the same blocks and clips (except for the 5 position clip) as \varnothing 22 mm heads (see p. 48-65)

Conform to IEC 60947-5-1



Characteristics (p. 121)

▶ SELECTOR SWITCHES - NON ILLUMINATED

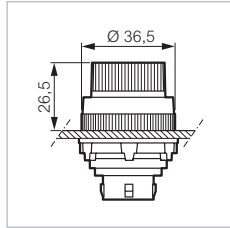
WITH HANDLE

2 positions

Cat. No.



T16KA03



Stay-put positions - 45°

- Red
- Black
- Grey



T16KA01
T16KA03
T16KA08

Stay-put positions - 45°

- Red
- Black
- Grey



T16KC01
T16KC03
T16KC08

Spring return- 45°

- Red
- Black
- Grey



T16KD01
T16KD03
T16KD08

Stay-put positions - 90°

- Red
- Black
- Grey



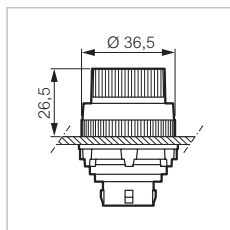
T16KF01
T16KF03
T16KF08

WITH HANDLE

3 positions

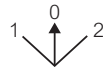


T16MA01



Stay-put positions - 45°

- Red
- Black
- Grey



T16MA01
T16MA03
T16MA08

Spring return from right to 0 - 45°

- Red
- Black
- Grey



T16MC01
T16MC03
T16MC08

Spring return to 0 - 45°

- Red
- Black
- Grey



T16MD01
T16MD03
T16MD08

Stay-put positions - 90°

- Red
- Black
- Grey



T16MK01
T16MK03
T16MK08

Separate units \varnothing 30: Heads

IP 65
 To be combined with a clip and electrical blocks (p. 48)
 With locking ring
 Plastic chrome bezel- Other bezel on request (form p. 117)
 \varnothing 30 blocks use the same blocks and clips (except for the 5 position clip) as \varnothing 22 mm heads (see p. 48-65)
 Conform to IEC 60947-5-1



Characteristics (p. 121)

▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

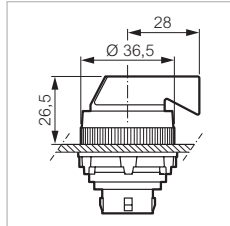
WITH LONG HANDLE

2 positions

Cat. No.



T16KP03



Stay-put positions - 45°

- Red
- Black
- Grey



T16KP01
 T16KP03
 T16KP08

Stay-put positions - 45°

- Red
- Black
- Grey



T16KR01
 T16KR03
 T16KR08

Spring return - 45°

- Red
- Black
- Grey



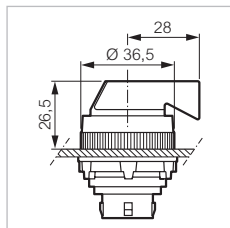
T16KS01
 T16KS03
 T16KS08

WITH LONG HANDLE

3 positions

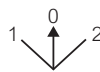


T16MR01



Stay-put positions - 45°

- Red
- Black
- Grey



T16MR01
 T16MR03
 T16MR08

Spring return from right to 0 - 45°

- Red
- Black
- Grey



T16MT01
 T16MT03
 T16MT08

Spring return to 0 - 45°

- Red
- Black
- Grey



T16MU01
 T16MU03
 T16MU08

Separate units \varnothing 30: Heads

IP 65
 To be combined with a clip and electrical blocks (p. 48)
 With locking ring
 Plastic chrome bezel- Other bezel on request (form p. 117)
 \varnothing 30 blocks use the same blocks and clips (except for the 5 position clip) as \varnothing 22 mm heads (see p. 48-65)
 Conform to IEC 60947-5-1



▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

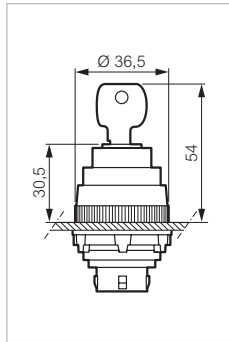
WITH KEY

2 positions

Cat. No.



T16LA00



Supplied with 2 keys profile n° 455

Key free in position:

Stay-put positions - 45°

● Black



0

T16LA00

Stay-put positions - 45°

● Black



0

T16LC00

Spring return- 45°

● Black



0

T16LD00

Stay-put positions - 90°

● Black



0

T16LF00

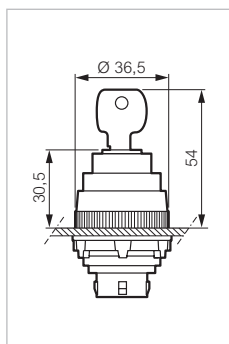
Key profile n° 1424 A and others (form p. 117)

WITH KEY

3 positions



T16NA00



Supplied with 2 keys profile n° 455

Key free in position:

Stay-put positions - 45°

● Black



0

T16NA00

Spring return from right to 0 - 45°

● Black



0

T16NC00

Spring return to 0 - 45°

● Black



0

T16ND00

Stay-put positions - 90°

● Black



1 - 0 - 2

T16NK00

Key profile n° 1424 A and others (form p. 117)

Separate units Ø 30: Heads

IP 65
 To be combined with a clip and electrical blocks (p. 48)
 With locking ring
 Plastic chrome bezel- Other bezel on request (form p. 117)
 Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 48-65)
 Conform to IEC 60947-5-1



Characteristics (p. 121)

▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

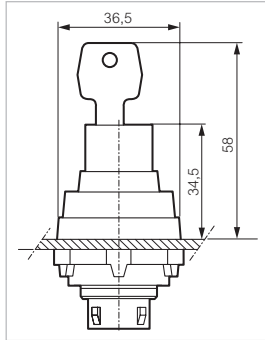
WITH KEY

Push

Cat. No.



T16GM00



Supplied with 2 keys profile n° 455

Lockable position	Key free in:	
Stay-put		
In bottom position	Top and bottom position	T16GM00
Manual locking		
In top position	Top and bottom position	T16GF00
In top position	Bottom position	T16GJ00
In bottom position	Top and bottom position	T16GG00
In bottom position	Bottom position	T16GK00
In top and bottom position	Top and bottom position	T16GH00
In top and bottom position	Bottom position	T16GL00

Separate units \varnothing 30: Heads

IP 65
 To be combined with a clip and electrical blocks (p. 48)
 With locking ring
 Plastic chrome bezel - Other bezel on request (form p. 117)
 \varnothing 30 blocks use the same blocks and clips (except for the 5 position clip) as \varnothing 22 mm heads (see p. 48-65)
 Conform to IEC 60947-5-1



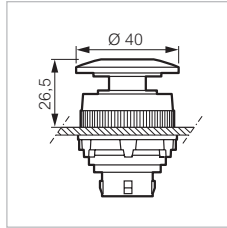
Characteristics (p. 121)

► MUSHROOM HEADS - NON ILLUMINATED

Ø 40 - STAY-PUT

Push-pull to reset

Cat. No.



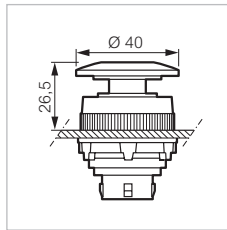
- Red
- Green
- Black
- Yellow

- T16DD01
- T16DD02
- T16DD03
- T16DD04

T16DD01

Ø 40 - STAY-PUT

Push-turn to reset



Stay-put

- Red
- Green
- Black
- Yellow

- T16ED01
- T16ED02
- T16ED03
- T16ED04

T16ED01

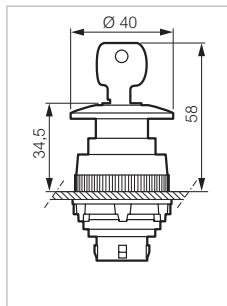
Manual locking

- Red
- Green
- Black
- Yellow

- T16FD01
- T16FD02
- T16FD03
- T16FD04

Ø 40 - STAY-PUT

Key to reset



Supplied with 2 keys profile n° 455

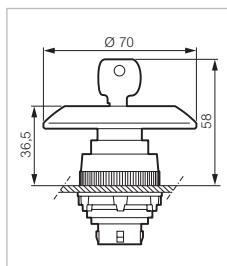
- Red

T16GM01

T16GM01

Ø 70 - STAY-PUT

Key to reset



Supplied with 2 keys profile n° 455

- Red

T16GP01

T16GP01

Separate units \varnothing 30: Heads

IP 65
 To be used without electrical block
 Black plastic bezel
 Stroke 12 mm
 Conform to IEC 60947-5-1

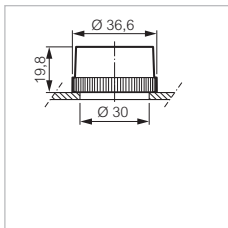


Characteristics (p. 121)

► ADJUSTABLE MECHANICAL PUSH/RESET BUTTON - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



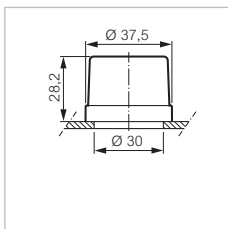
- Red
- Green
- Black
- Yellow
- White
- Blue

- T12HA01
- T12HA02
- T12HA03
- T12HA04
- T12HA05
- T12HA06

T12HA04

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



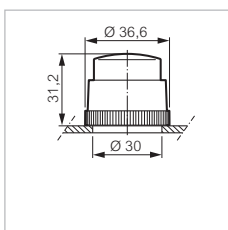
Supplied with transparent shroud

- Red
- Green
- Black
- Yellow
- White
- Blue

- T12HG01
- T12HG02
- T12HG03
- T12HG04
- T12HG05
- T12HG06

T12HG06

SPRING RETURN - PROJECTING



- Red
- Green
- Black
- Yellow
- White
- Blue

- T12HB01
- T12HB02
- T12HB03
- T12HB04
- T12HB05
- T12HB06

T12HB05

Separate units \varnothing 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 48)

With locking ring

Plastic chrome bezel- Black bezel on request (form p. 117)

\varnothing 30 blocks use the same blocks and clips (except for the 5 position clip) as \varnothing 22 mm heads (see p. 48-65)

Conform to IEC 60947-5-1

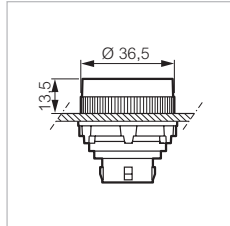


Characteristics (p. 121)

► PUSH-BUTTONS - ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



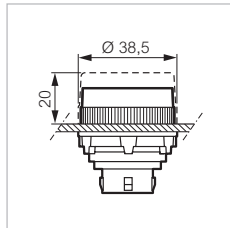
- Red
- Green
- Colourless
- Yellow
- Opal

T16AH10
T16AH20
T16AH30
T16AH40
T16AH50

T16AH20

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



Supplied with transparent shroud

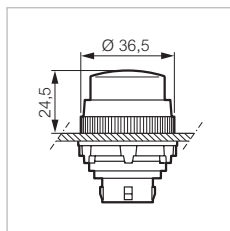
- Red
- Green
- Colourless
- Yellow
- Opal

T12AP10
T12AP20
T12AP30
T12AP40
T12AP50

T12AP40

Enables engraving of button plate (form p. 117)

SPRING RETURN - PROJECTING



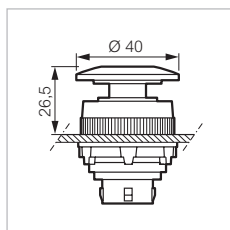
- Red
- Green
- Colourless
- Yellow
- Opal

T16AK10
T16AK20
T16AK30
T16AK40
T16AK50

T16AK10

SPRING RETURN - MUSHROOM HEAD \varnothing 40

Push



- Red
- Green
- Yellow
- Opal

T16AM10
T16AM20
T16AM40
T16AM50

T16AM10

Separate units \varnothing 30: Heads

IP 65
 To be combined with a clip and electrical blocks (p. 48)
 With locking ring
 Plastic chrome bezel- Black bezel on request (form p. 117)
 \varnothing 30 blocks use the same blocks and clips (except for the 5 position clip) as \varnothing 22 mm heads (see p. 48-65)
 Conform to IEC 60947-5-1

 Characteristics (p. 121)

► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

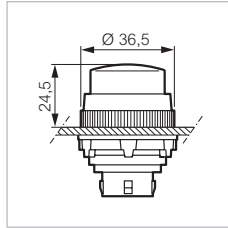
STAY-PUT - PROJECTING

Push-push

Cat. No.



T16CK50



- Red
- Green
- Colourless
- Yellow
- Opal

- T16CK10
- T16CK20
- T16CK30
- T16CK40
- T16CK50

Separate units \varnothing 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 48)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 117)

\varnothing 30 blocks use the same blocks and clips (except for the 5 position clip) as \varnothing 22 mm heads (see p. 48-65)

Conform to IEC 60947-5-1



Characteristics (p. 121)

▶ SELECTOR SWITCHES - ILLUMINATED

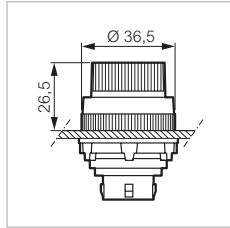
WITH HANDLE

2 positions

Cat. No.



T16KG10



Stay-put positions - 45°

- Red
- Green
- Opal



T16KG10
T16KG20
T16KG50

Stay-put positions - 45°

- Red
- Green
- Opal



T16KJ10
T16KJ20
T16KJ50

Spring return - 45°

- Red
- Green
- Opal



T16KK10
T16KK20
T16KK50

Stay-put positions - 90°

- Red
- Green
- Opal



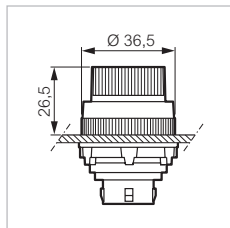
T16KM10
T16KM20
T16KM50

WITH HANDLE

3 positions

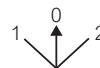


T16ME20



Stay-put positions - 45°

- Red
- Green
- Opal



T16ME10
T16ME20
T16ME50

Spring return from right to 0 - 45°

- Red
- Green
- Opal



T16MG10
T16MG20
T16MG50

Spring return to 0 - 45°

- Red
- Green
- Opal



T16MH10
T16MH20
T16MH50

Stay-put positions - 90°

- Red
- Green
- Opal



T16MJ10
T16MJ20
T16MJ50

Separate units \varnothing 30: Heads

To be combined with a clip and electrical blocks (p. 48)
 With locking ring
 For lens engraving (form p. 117)
 Conform to IEC 60947-5-1



Characteristics (p. 121)

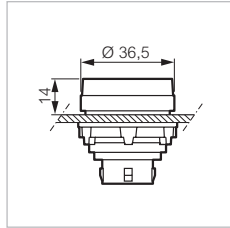
▶ PILOT LIGHT

LENS WITH BEZEL

Cat. No.



T10SB50V



Smooth lens

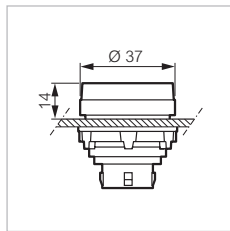
- Red
- Green
- Colourless
- Yellow
- Opal
- Blue

T10SB10V
 T10SB20V
 T10SB30V
 T10SB40V
 T10SB50V
 T10SB60V

LENS WITH BEZEL AND TRIM



T15SB20V



Smooth lens

- Red
- Green
- Colourless
- Yellow
- Opal
- Blue

T15SB10V
 T15SB20V
 T15SB30V
 T15SB40V
 T15SB50V
 T15SB60V

Accessories ø 30

 Characteristics (p. 121)

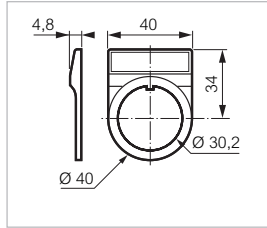
▶ COMPLETE FRAME

Standard model

Cat. No.



UP39



Round shape
Black frame and legend plate unassembled
2 lines maximum, 18 characters per line

Without engraving

- Red
- Black
- Alu
- Transparent

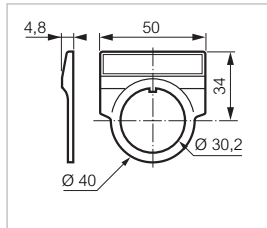
UP31
UP33
UP39
UP37

On demand engraving (p. 117)

Large model



UG39



Round shape
Black frame and legend plate unassembled
2 lines maximum, 24 characters per line

Without engraving

- Red
- Black
- Alu
- Transparent

UG31
UG33
UG39
UG37

On demand engraving (p. 117)

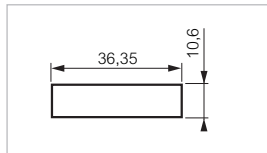
▶ LEGEND PLATE

Standard model

Cat. No.



IB1



2 lines maximum, 18 characters per line
For frame cat. no.. UP3

Without engraving

- Red
- Black
- Alu
- Transparent

IB1
IB3
IB9
IB7

On demand engraving (p. 117)

Cardboard legend for transparent legend plate
Sheet of 20 pieces, to be cut out

I2B

Accessories ø 30

 Characteristics (p. 121)

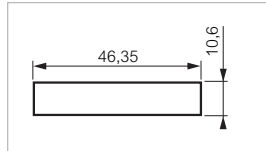
▶ LEGEND PLATE (CONTINUED)

Large model

Cat. No.



IC3



2 lines maximum, 24 characters per line
For frame cat. no.. UG3

Without engraving

- Red
- Black
- Alu
- Transparent

IC1
IC3
IC9
IC7

On demand engraving (p. 117)

Cardboard legend for transparent legend plate
Sheet of 20 pieces, to be cut out

I2C

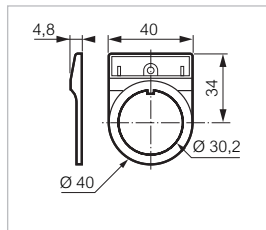
▶ FRAMES

Standard model

Cat. No.



UP3



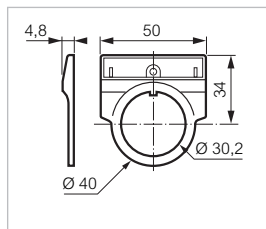
- Black

UP3

Large model



UG3



- Black

UG3

Accessories ø 30

 Characteristics (p. 121)

▶ BUTTON PLATES

FOR ILLUMINATED FLUSH BUTTONS

Cat. No.



UE02

2 lines maximum, 10 characters per line
To be inserted under the button

Without engraving

Transparent

UE02

On demand engraving (p. 117)

Symbol code to be added at the end of the catalogue number

Transparent (black engraving)

UE0□□□

Other colours (form p. 117)

FOR PILOT LIGHTS



UE10

2 lines maximum, 12 characters per line
To be inserted under the lens

Without engraving

Transparent

UE10

On demand engraving (p. 117)

Symbol code to be added at the end of the catalogue number

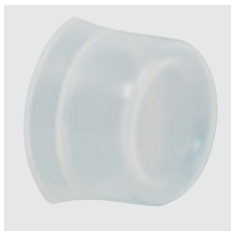
Transparent (black engraving)

UE10□□□

▶ SHROUDS IP 67

FOR ADJUSTABLE MECHANICAL BUTTONS

Cat. No.



UA0219

Transparent

UA0219

FOR FLUSH BUTTONS



UA0228

Transparent

UA0228

Accessories ø 30

 Characteristics (p. 121)

▶ BEZELS

ROUND

Cat. No.



UA0011

Height 13 mm
Possibility of sticking the bezel on the button

Brilliant chrome plastic	UA0011
Black plastic	UA0012
Grey plastic	UA0013
Matt chrome plastic bezel	UA0016
Matt chrome brass	UA0014

For adjustable mechanical button



UA0112

Height 20 mm

Brilliant chrome plastic	UA0111
Black plastic	UA0112
Grey plastic	UA0113
Brilliant chrome brass	UA0114

GUARD

For flush push-buttons



UA0202

Height 20 mm

Brilliant chrome brass	UA0202
------------------------	--------

Accessories ϕ 30

 Characteristics (p.121)

► MISCELLANEOUS

FIXING TOOL

Cat. No.



Fixing tool ϕ 30

WA0210

WA0210

BLANKING PLUG



Grey

UA0215

UA0215

ANTI-ROTATION RING



Anti-rotation ring















UA0209

UA0209

Request form for specific control and signalling units ø 30

► **HEAD (fill in one form for each type of product)**

Type:

-  Spring return flush
-  Spring return projecting
-  Mushroom head spring return
-  Push-push stay-put
-  Push-push super flush
-  Mushroom head push-pull stay-put
-  Mushroom head push-turn stay-put
-  Mushroom head With key
-  Selector switch handle
-  Selector switch with long handle
-  Selector switch with key
 - 455 E
 - 1424 A
 - Other
-  Double touch
-  Mechanical button
 - Flush
 - Projecting
-  Pilot light

Options:

- Illuminated button
- IP 67 shroud
- Guard for buttons

Size (mm):

- Mushroom head Ø 40 Ø 70

Colour :

- Colourless Green
- Black Red
- Opal Blue
- Yellow

Bezel:

- black
- grey
- matt chromed
- brilliant chromed
- chromed brass

► **ENGRAVINGS**

Use the grid below

- on head**
 - standard text or symbol
 - other text (2 x 10 characters)
- on legend plate :**
 - standard (2 x 18 characters)
 - large model (2 x 14 characters)

Ground colour:

- white
- alu
- black

► **BLOCKS AND CLIPS**

Block:

- ① NO
- ② NC
- ③ NO/NC
- ④ Transformer
- ⑤ Filter
- ⑥ Jonction
- ⑦ Empty
- ⑧ Lamp-test
- ⑨ LED





- Voltage:** 24 V 130 V 230 V

- Colour:** white yellow red green blue

Connection:

- Screw
- Faston
- Plug-in
- For PCB

Clips :

- 1 position 
- 3 positions 
- 5 positions 
- 6 positions 

Options:

- Head, block and clip assembled

YOUR DETAILS

Company:

.....

Name and surname:

.....

Address:

.....

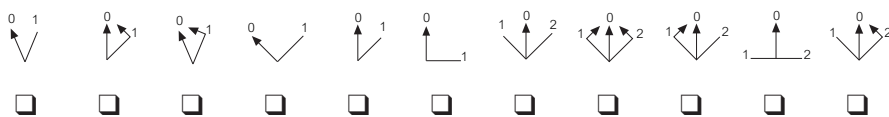
E-mail :

Tel. :

Fax:

COMMENTS

► **SELECTOR SWITCHES SWITCHING ANGLE**



Key free in position: 0 1 2 other (attach diagram)

ENGRAVING

Engravings

Symbol code to be added at the end of the catalogue number

▶ STANDARD TEXTS

UNIVERSAL TEXT

Cat. No.

For selector switches and legend plates

O-I	081
I-II	082
I-O-II	091
I-II-III	092
O-I-START	093
O-I-II	094

ENGLISH TEXT

For buttons, pilot lights and legend plates

CLOSE	314
DOWN	336
FAST	310
FORWARD	305
INCH	329
JOG	328
LEFT	311
LOWER	308
OFF	304
ON	303
OPEN	313
POWER-ON	330
RAISE	307
RESET	315
REVERSE	306
RIGHT	312
RUN	327
SLOW	309
START	301
STOP	302
UP	335

For selector switches and legend plates

FORW.-OFF-REV.	392
HAND-AUTO	383
HAND-OFF-AUTO	391
LOCAL-OFF-REMOTE	393
OFF-ON	382
STOP-START	381

Engravings

Symbol code to be added at the end of the catalogue number

▶ STANDARD TEXTS (CONTINUED)

GERMAN TEXT

Cat. No.

For buttons, pilot lights and legend plates

AB	208
AUF	207
AUS	204
BETRIEB	224
BREMSEN	225
EIN	203
EINRICHTEN	223
FEINHEBEN	221
FEINSENKEN	222
HALT	202
HEBEN	219
LANGSAM	209
LINKS	211
RECHTS	212
RÜCKWÄRTS	206
SENKEN	220
SCHNELL	210
VORWÄRTS	205
VORRÜCKEN	226
ZU	214

For selector switches and legend plates

AUS-EIN	281
HAND-AUTO	283
HAND-O-AUTO	291
ZURÜCK-O-VOR	292

FRENCH TEXT

For buttons, pilot lights and legend plates

ALARME	133
ARRÊT	102
ARRÊT GÉNÉRAL	116
ARRIÈRE	106
AVANT	105
DÉCLENCHEMENT	131
DÉFAUT	132
DESCENTE	108
DROITE	112
EN SERVICE	103
FERMETURE	114
GAUCHE	111
HORS SERVICE	104
KLAXON	118
LENT	109
MARCHE	101
MONTÉE	107
OUVERTURE	113
RÉARMEMENT	115
SOUS TENSION	117
VITE	110

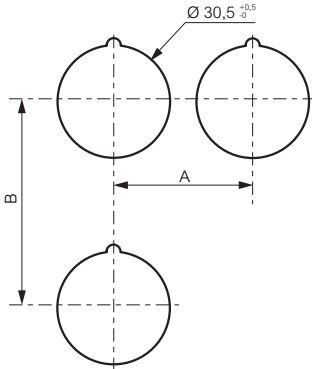
For selector switches and legend plates

ARRÊT-MARCHE	181
AVANT -O- ARRIÈRE	192
C.P.C.-NORMAL	184
HORS-EN	182
MANU-AUTO	183
MANU -O- AUTO	191

Panel cut-out $\varnothing 30$

DRILLING

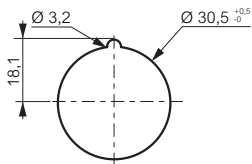
For heads equipped with electrical blocks with screw terminals



Minimum interval (mm)

	> 40	For mushroom head $\varnothing 40$
A	> 50	For selector switch with Long handle
	> 70	For mushroom head $\varnothing 70$
	> 50	For double touch
B	> 50	For legend plates
	> 70	For mushroom head $\varnothing 70$

DRILLING WHEN USING THE ANTI-ROTATION RING (OPTIONAL)



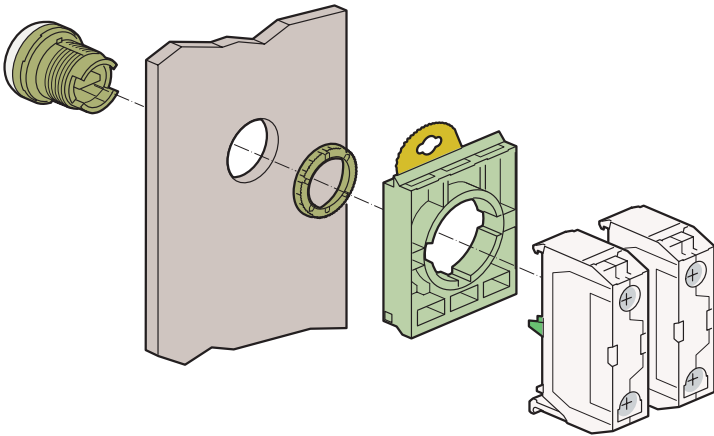
Technical characteristics \varnothing 30

► GENERAL

Characteristics	Data	Standards
► Storage temperature for illuminated or non illuminated button	- 40°C to + 70°C	
► Operating temperature	Non illuminated buttons: - 25°C to + 70°C Illuminated buttons: - 25°C to + 60°C	
► Degree of protection	IP 65 for standard heads IP 67 for shrouded heads	IEC 60947-1
► Mechanical life	Spring return push button: 3 x 10 ⁶ operating cycles	IEC 60947-5-1

The blocks used for diameter 30 are the same as for diameter 22.
Their characteristics are described on p. 95

► MOUNTING THE BLOCKS



Protection, flexibility and safety

Cam switches from 10 to 200 A

► STANDARD SOLUTIONS P.124 - 202

The expertise of a specialist like Baco allows us to offer made-to-measure solutions, even the most specific.



Choice of diagram
from 1 to 24 contacts



Metal shaft
can withstand more than
1 million operations

**Customised
engravings**

► ADVANTAGES

- Conform to European and international standards: IEC, UL and CSA, and CCC
- A metal shaft capable of withstanding more than 1 million operations
- More than 50 000 different diagrams available
- Many specific functions and special markings

► MADE-TO-MEASURE SOLUTIONS

How do I order a switch in 5 steps?

Example: A change-over switch without off

- 1 DETERMINE THE RATING** according to the electrical specifications **p. 205**
Voltage, performance, etc (p. 203).
EG: for switching of resistive loads 63A

 - RATING: PR 63
 - PRICE LIST CODE: I
- 2 SELECT A DIAGRAM AND ITS SWITCHING ANGLE** **p. 206**
EG: for a 2 way switch without off, with 1 pole
EG: for a switching angle of 90°

 - CAT. No. 2251
 - PRICE LIST CODE: A02Z
 - CAT. No. A4
 - PRICE LIST CODE: -
- 3 DETERMINE THE MOUNTING METHOD** **p. 239**
front or rear mounting, with screws or on DIN rail.
EG: for rear mounting 68 mm interval

 - CAT. No. S
 - PRICE LIST CODE: Y508
- 4 DEFINE THE PRESENTATION** **p. 253**
Plate, frame and handle, padlockable, with clutch drive, in enclosure,
with key locking, coupling in parallel or in series, dual-voltage device, etc
EG: for a □ 72 frame with a medium handle

 - CAT. No. Q72 MN
 - PRICE LIST CODE: Q72 MN
- 5 SELECT YOUR OPTIONS** **p. 268**
Handles and long handles, legends, legend plate, terminal cover, etc
EG: for a 72 “pump 1 pump 2” engraving

 - engraving
“pump 1 -
pump 2”
 - PRICE LIST CODE: Y000

Example of grid to be used for your order



	Rating	Diagram	Mounting	Presentation	Option 1	Option 2...
DESIGNATION	PR 63	2251 A4	S	Q72 MN	“pump 1 - pump 2”	-
PRICE LIST CODE	I	A02Z -	Y508	Q72 MN	Y000	-
Observations	PR 63 AC21 = 63 A	2 way without off, 1 pole 90° switching angle	Rear mounting	□ 72 plate and frame presentation Medium handle	Duty label Standard engraving	

Cam switches

 Characteristics (p. 203)

► ON-OFF SWITCH

No. of contacts	0	1	
1-2		X	1P
3-4		X	2P
5-6		X	3P
7-8		X	4P

MINI CAM SWITCH - 10 A (AC21)

∅ 16 and 22 single hole front mounting

Cat. No.



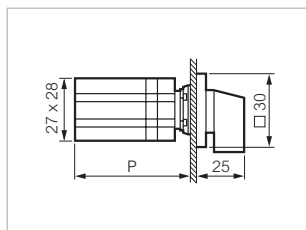
223501

30 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



223501
223502
223503
223504



Dimensions in mm
*P: 50 (1-2 CONTACTS)
62 (3-4 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NB02AQ1

Designation

Grey/black small handle
 48 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR12 1101 A4 E Q48PN
PR12 1102 A4 E Q48PN
PR12 1103 A4 E Q48PN
PR12 1104 A4 E Q48PN

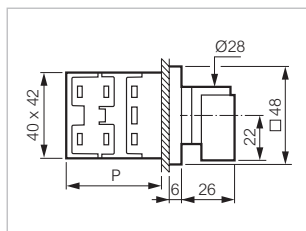
NB01AQ1
NB02AQ1
NB03AQ1
NB04AQ1

1P - 1 contact
2P - 2 contacts
3P - 3 contacts



PR12 1101 A8 E Q48PN
PR12 1102 A8 E Q48PN
PR12 1103 A8 E Q48PN

NB01EQ1
NB02EQ1
NB03EQ1



Dimensions in mm
*P: 36 (1-2 CONTACTS)
46 (3-4 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

► ON-OFF SWITCH (CONTINUED)

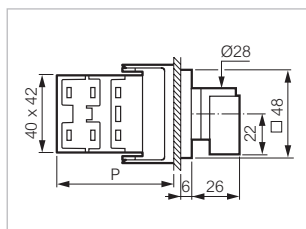
PR 12 - 16 A (AC21)

∅ 22 single hole front mounting

Cat. No.



NB03EX80



Dimensions in mm
*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)

Grey/black small handle
□ 48 aluminium plate and frame

Designation

- 1P - 1 contact
- 2P - 2 contacts
- 3P - 3 contacts
- 4P - 4 contacts



- PR12 1101 A4 E N48MD50
- PR12 1102 A4 E N48MD50
- PR12 1103 A4 E N48MD50
- PR12 1104 A4 E N48MD50

- NB01AX80**
- NB02AX80**
- NB03AX80**
- NB04AX80**

- 1P - 1 contact
- 2P - 2 contacts
- 3P - 3 contacts



- PR12 1101 A8 E N48MD50
- PR12 1102 A8 E N48MD50
- PR12 1103 A8 E N48MD50

- NB01EX80**
- NB02EX80**
- NB03EX80**

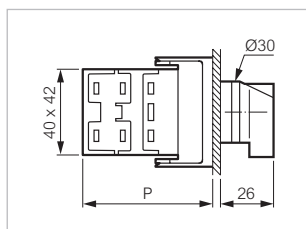
PR 12 - 16 A (AC21)

∅ 22 single hole front mounting

Cat. No.



NB03AC113



Dimensions in mm
*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)

Selector switch style handle
Matt chrome plastic bezel

Designation

- 1P - 1 contact
- 2P - 2 contacts
- 3P - 3 contacts
- 4P - 4 contacts



- PR12 1101 A4 E C21RA03
- PR12 1102 A4 E C21RA03
- PR12 1103 A4 E C21RA03
- PR12 1104 A4 E C21RA03

- NB01AC113**
- NB02AC113**
- NB03AC113**
- NB04AC113**

*P = Depth

Cam switches

 Characteristics (p. 203)

► ON-OFF SWITCH (CONTINUED)

PR 12 - 16 A (AC21)

Enclosure

Cat. No.



NB02AGQ

Grey/black small handle
 48 aluminium plate and frame

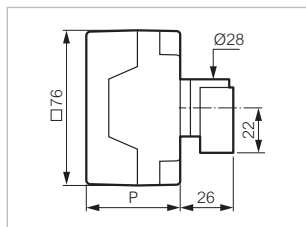
- 1P - 1 contact
- 2P - 2 contacts
- 3P - 3 contacts
- 4P - 4 contacts



Designation

- PR12 1101 A4 BPRQ48PN
- PR12 1102 A4 BPRQ48PN
- PR12 1103 A4 BPRQ48PN
- PR12 1104 A4 BPRQ48PN

- NB01AGQ
- NB02AGQ**
- NB03AHQ**
- NB04AHQ



Dimensions in mm

- *P: 46 (1-2 CONTACTS)
- 58 (3-4 CONTACTS)

PR 17 - 20 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



SB04AQ1

Grey/black small handle
 48 aluminium plate and frame

- 1P - 1 contact
- 2P - 2 contacts
- 3P - 3 contacts
- 4P - 4 contacts



Designation

- PR17 1101 A4 E Q48PN
- PR17 1102 A4 E Q48PN
- PR17 1103 A4 E Q48PN
- PR17 1104 A4 E Q48PN

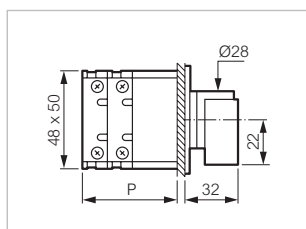
- SB01AQ1
- SB02AQ1**
- SB03AQ1**
- SB04AQ1**

- 3P - 3 contacts
- 4P - 4 contacts



- PR17 1103 A8 E Q48PN
- PR17 1104 A8 E Q48PN

- SB03EQ1**
- SB04EQ1**



Dimensions in mm

- *P: 33 (1-2 CONTACTS)
- 45 (3-4 CONTACTS)

*P = Depth

Cam switches

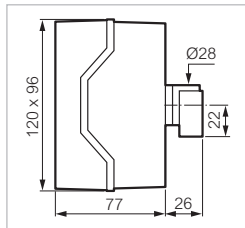
 Characteristics (p. 203)

► ON-OFF SWITCH (CONTINUED)

PR 17 -20 A (AC21)

Enclosure

Cat. No.



SB02AXQ

Black small handle
 64 aluminium plate and frame

- 1P - 1 contact
- 2P - 2 contacts
- 3P - 3 contacts
- 4P - 4 contacts



Designation

- PR17 1101 A4 BCQ3
- PR17 1102 A4 BCQ3
- PR17 1103 A4 BCQ3
- PR17 1104 A4 BCQ3

- SB01AXQ
- SB02AXQ
- SB03AXQ
- SB04AXQ

PR 21 -25 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



TB01AQ1

Grey/black small handle
 48 aluminium plate and frame

- 1P - 1 contact
- 2P - 2 contacts
- 3P - 3 contacts
- 4P - 4 contacts



Designation

- PR21 1101 A4 E Q48PN
- PR21 1102 A4 E Q48PN
- PR21 1103 A4 E Q48PN
- PR21 1104 A4 E Q48PN

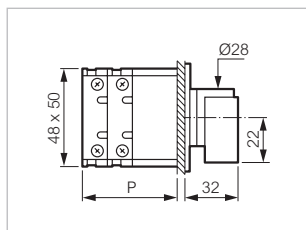
- TB01AQ1**
- TB02AQ1
- TB03AQ1**
- TB04AQ1

- 3P - 3 contacts



- PR21 1103 A8 E Q48PN

- TB03EQ1**



Dimensions in mm
 *P: 33 (1-2 CONTACTS)
 45 (3-4 CONTACTS)

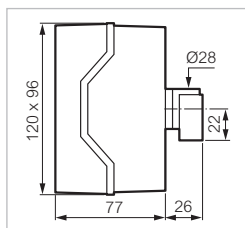
PR 21 -25 A (AC21)

Enclosure

Cat. No.



TB01AXQ



Black small handle
 64 aluminium plate and frame

- 1P - 1 contact
- 2P - 2 contacts
- 3P - 3 contacts
- 4P - 4 contacts



Designation

- PR21 1101 A4 BCQ3
- PR21 1102 A4 BQ3
- PR21 1103 A4 BCQ3
- PR21 1104 A4 BCQ3

- TB01AXQ
- TB02AXQ
- TB03AXQ
- TB04AXQ

*P = Depth

Cam switches

 Characteristics (p. 203)

► ON-OFF SWITCH (CONTINUED)

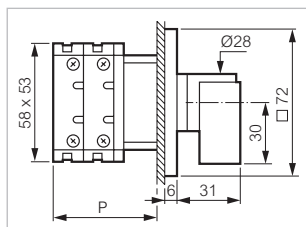
PR 26 -32 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ZB04AQ7



Dimensions in mm
*P: 36 (1-2 CONTACTS)
51 (3-4 CONTACTS)

Designation

Grey/black medium handle
□ 72 aluminium plate and frame

- 1P - 1 contact
- 2P - 2 contacts
- 3P - 3 contacts
- 4P - 4 contacts



- PR26 1101 A4 E Q72MN
- PR26 1102 A4 E Q72MN
- PR26 1103 A4 E Q72MN
- PR26 1104 A4 E Q72MN

- ZB01AQ7**
- ZB02AQ7**
- ZB03AQ7**
- ZB04AQ7**

- 3P - 3 contacts



- PR26 1103 A8 E Q72MN

- ZB03EQ7**

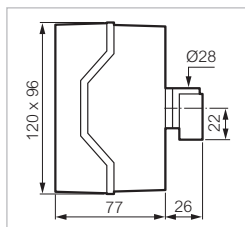
PR 26 -32 A (AC21)

Enclosure

Cat. No.



ZB02AXQ



Designation

Black small handle
□ 72 aluminium plate and frame

- 1P - 1 contact
- 2P - 2 contacts
- 3P - 3 contacts
- 4P - 4 contacts



- PR26 1101 A4 BCQ3
- PR26 1102 A4 BCQ3
- PR26 1103 A4 BCQ3
- PR26 1104 A4 BCQ3

- ZB01AXQ**
- ZB02AXQ**
- ZB03AXQ**
- ZB04AXQ**

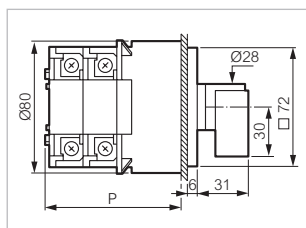
PR 40 -50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HB03AQ7



Dimensions in mm
*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)

Designation

Grey/black medium handle
□ 72 aluminium plate and frame

- 1P - 1 contact
- 2P - 2 contacts
- 3P - 3 contacts
- 4P - 4 contacts



- PR40 1101 A4 E Q72MN
- PR40 1102 A4 E Q72MN
- PR40 1103 A4 E Q72MN
- PR40 1104 A4 E Q72MN

- HB01AQ7**
- HB02AQ7**
- HB03AQ7**
- HB04AQ7**

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

► ON-OFF SWITCH (CONTINUED)

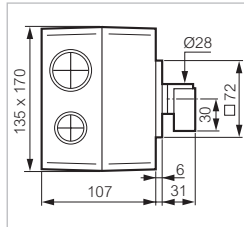
PR 40 -50 A (AC21)

Enclosure

Cat. No.



HB02AAQ



Grey/black medium handle
□ 72 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR40 1101 A4 BCFQ72MN
PR40 1102 A4 BCFQ72MN
PR40 1103 A4 BCFQ72MN
PR40 1104 A4 BCFQ72MN

HB01AAQ
HB02AAQ
HB03ABQ
HB04ABQ

PR 63 -63 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



IB03AQ7

Grey/black medium handle
□ 72 aluminium plate and frame

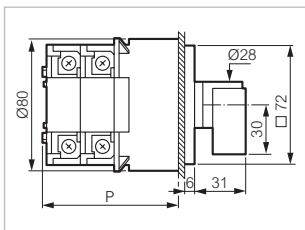
1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR63 1101 A4 E Q72MN
PR63 1102 A4 E Q72MN
PR63 1103 A4 E Q72MN
PR63 1104 A4 E Q72MN

IB01AQ7
IB02AQ7
IB03AQ7
IB04AQ7



Dimensions in mm

*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)

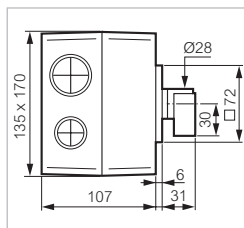
PR 63 -63 A (AC21)

Enclosure

Cat. No.



IB02AAQ



Grey/black medium handle
□ 72 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR63 1101 A4 BCF140Q72MN
PR63 1102 A4 BCF140Q72MN
PR63 1103 A4 BCF240Q72MN
PR63 1104 A4 BCF240Q72MN

IB01AAQ
IB02AAQ
IB03ABQ
IB04ABQ

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

► ON-OFF SWITCH (CONTINUED)

PR 125 -160 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



LB02AQ9

Grey/black large handle
□ 96 aluminium plate and frame

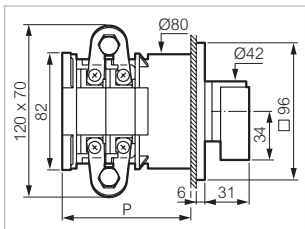
Designation

- 1P - 1 contact
- 2P - 2 contacts
- 3P - 3 contacts
- 4P - 4 contacts



- PR125 1101 A4 E Q96GN
- PR125 1102 A4 E Q96GN
- PR125 1103 A4 E Q96GN
- PR125 1104 A4 E Q96GN

- LB01AQ9
- LB02AQ9
- LB03AQ9
- LB04AQ9



Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)

PR 160 -200 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



MB02AQ9

Grey/black large handle
□ 96 aluminium plate and frame

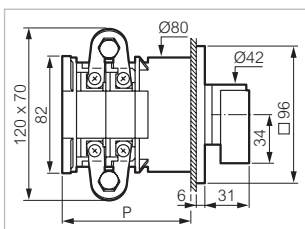
Designation

- 1P - 1 contact
- 2P - 2 contacts
- 3P - 3 contacts
- 4P - 4 contacts



- PR160 1101 A4 E Q96GN
- PR160 1102 A4 E Q96GN
- PR160 1103 A4 E Q96GN
- PR160 1104 A4 E Q96GN

- MB01AQ9
- MB02AQ9
- MB03AQ9
- MB04AQ9



Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)


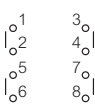
*P = Depth

Cam switches

 Characteristics (p. 203)

► MAIN SWITCH

No. of contacts	0	1	
1-2		X	3P
3-4		X	
5-6		X	4P
7-8		X	

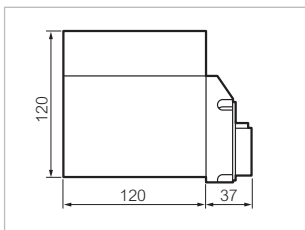
PR 125 - 160 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.




LS3EV733



Red padlockable handle
for up to 4 padlocks
□ 72 yellow frame

**With engraving
MAIN SWITCH**

3P+ \pm - 3 contacts 
3P+N - 4 contacts

Designation

PR125 1103GN E J723MND61	LS3EV733
PR125 1104GN E J723MND61	LS4EV733

Without engraving

3P+ \pm 
3P+N

PR125 1103GN E J72MND61	LS3EV72
PR125 1104GN E J72MND61	LS4EV72

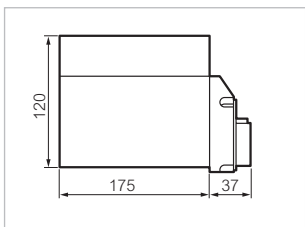
PR 125 - 160 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.




LG3EV733



Grey padlockable handle
for up to 4 padlocks
□ 72 grey frame


**With engraving
MAIN SWITCH**

3P+ \pm - 3 contacts 
3P+N - 4 contacts

Designation

PR125 1103GN E V723MND61	LG3EV733
PR125 1104GN E V723MND61	LG4EV733

Without engraving

3P+ \pm - 3 contacts 
3P+N - 4 contacts

PR125 1103GN E V72MND61	LG3EV72
PR125 1104GN E V72MND61	LG4EV72

Cam switches

 Characteristics (p. 203)

▶ MAIN SWITCH (CONTINUED)

PR 125 - 160 A (AC21)

2-screw panel mount - interval: 50 mm


Cat. No.



LS3EV973

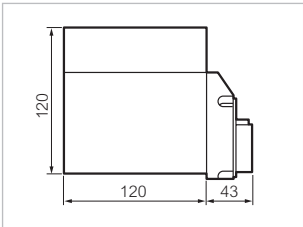
Red padlockable handle
for up to 4 padlocks
□ 96 yellow frame

**With engraving
MAIN SWITCH**

3P+ ± - 3 contacts 
3P+N - 4 contacts

Designation

PR125 1103GN E J963GND61	LS3EV973
PR125 1104GN E J963GND61	LS4EV973



PR 125 - 160 A (AC21)

Rear mounting with clutch drive and door interlock


Cat. No.



LS3RV733

Red padlockable handle
for up to 4 padlocks
□ 72 yellow frame
Clutch drive and
door interlock


**With engraving
MAIN SWITCH**

3P+ ± - 3 contacts 
3P+N - 4 contacts

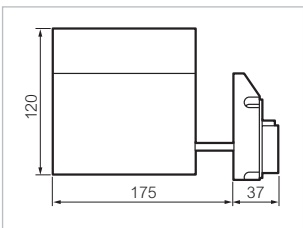
Designation

PR125 1103GN SV6 J723MND61	LS3RV733
PR125 1104GN SV6 J723MND61	LS4RV733

Without engraving

3P+ ± - 3 contacts 
3P+N - 4 contacts

PR125 1103GN SV6 J72MND61	LS3RV72
PR125 1104GN SV6 J72MND61	LS4RV72



Cam switches

 Characteristics (p. 203)

► MAIN SWITCH (CONTINUED)

PR 125 - 160 A (AC21)

Rear mounting with clutch drive and door interlock

Cat. No.



LG3RV733

Grey padlockable handle
for up to 4 padlocks
□ 72 grey frame

**With engraving
MAIN SWITCH**

3P+ ± - 3 contacts
3P+N - 4 contacts



Designation

PR125 1103GN SV6 V723MND61

LG3RV733

PR125 1104GN SV6 V723MND61

LG4RV733

Without engraving

3P+ ± - 3 contacts
3P+N - 4 contacts

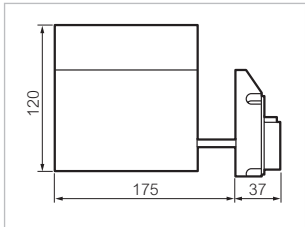


PR125 1103GN SV6 V72MND61

LG3RV72

PR125 1104GN SV6 V72MND61

LG4RV72



PR 125 - 160 A (AC21)

Rear mounting with clutch drive and door interlock

Cat. No.



LS3RV973

Red padlockable handle
for up to 4 padlocks
□ 96 yellow frame

**With engraving
MAIN SWITCH**

3P+ ± - 3 contacts
3P+N - 4 contacts



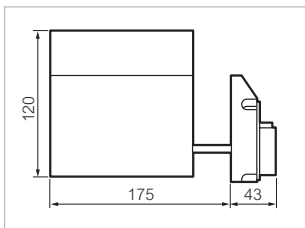
Designation

PR125 1103GN SV6 J963GND61

LS3RV973

PR125 1104GN SV6 J963GND61

LS4RV973



Cam switches

 Characteristics (p. 203)

► MAIN SWITCH (CONTINUED)

PR 160 -200 A (AC21)

2-screw panel mount - interval: 50 mm


Cat. No.



MS3EV733

Red padlockable handle
for up to 4 padlocks
□ 72 yellow frame


**With engraving
MAIN SWITCH**

3P+ ± - 3 contacts 
3P+N - 4 contacts

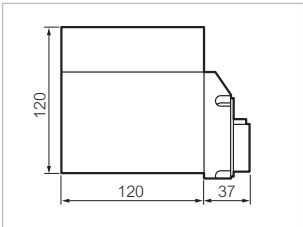
Designation

PR160 1103GN E J723MND61	MS3EV733
PR160 1104GN E J723MND61	MS4EV733

Without engraving

3P+ ± - 3 contacts 
3P+N - 4 contacts

PR160 1103GN E J72MND61	MS3EV72
PR160 1104GN E J72MND61	MS4EV72



PR 160 -200 A (AC21)

2-screw panel mount - interval: 50 mm


Cat. No.



MG3EV733

Grey padlockable handle
for up to 4 padlocks
□ 72 grey frame


**With engraving
MAIN SWITCH**

3P+ ± - 3 contacts 
3P+N - 4 contacts

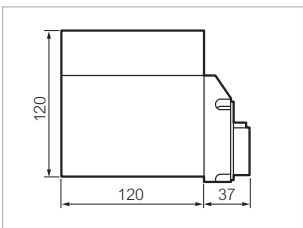
Designation

PR160 1103GN E V723MND61	MG3EV733
PR160 1104GN E V723MND61	MG4EV733

Without engraving

3P+ ± - 3 contacts 
3P+N - 4 contacts

PR160 1103GN E V72MND61	MG3EV72
PR160 1104GN E V72MND61	MG4EV72



Cam switches

 Characteristics (p. 203)

► MAIN SWITCH (CONTINUED)

PR 160 -200 A (AC21)

2-screw panel mount - interval: 50 mm



Cat. No.



MS4EV973

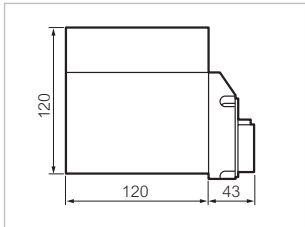
Red padlockable handle
for up to 4 padlocks
□ 96 yellow frame

**With engraving
MAIN SWITCH**

3P+ \pm - 3 contacts 
3P+N - 4 contacts 

Designation

PR160 1103GN E J963GND61	MS3EV973
PR160 1104GN E J963GND61	MS4EV973



PR 160 -200 A (AC21)

Rear mounting with clutch drive and door interlock



Cat. No.



MS3RV733

Red padlockable handle
for up to 4 padlocks
□ 72 yellow frame
Clutch drive and
door interlock



**With engraving
MAIN SWITCH**

3P+ \pm - 3 contacts 
3P+N - 4 contacts 

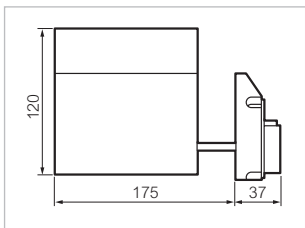
Designation

PR160 1103GN SV6 J723MND61	MS3RV733
PR160 1104GN SV6 J723MND61	MS4RV733

Without engraving

3P+ \pm - 3 contacts 
3P+N - 4 contacts 

PR160 1103GN SV6 J72MND61	MS3RV72
PR160 1104GN SV6 J72MND61	MS4RV72



Cam switches

 Characteristics (p. 203)

► MAIN SWITCH (CONTINUED)

PR 160 -200 A (AC21)

Rear mounting with clutch drive and door interlock


Cat. No.



MG4RV733

Grey padlockable handle
for up to 4 padlocks
□ 72 grey frame


**With engraving
MAIN SWITCH**

3P+ ± - 3 contacts 
3P+N - 4 contacts

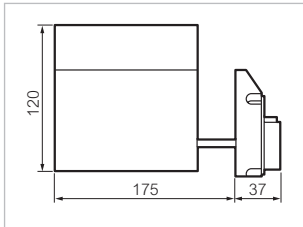
Designation

PR160 1103GN SV6 V723MND61	MG3RV733
PR160 1104GN SV6 V723MND61	MG4RV733

Without engraving

3P+ ± - 3 contacts 
3P+N - 4 contacts

PR160 1103GN SV6 V72MND61	MG3RV72
PR160 1104GN SV6 V72MND61	MG4RV72



PR 160 -200 A (AC21)

Rear mounting with clutch drive and door interlock


Cat. No.



MS4RV973

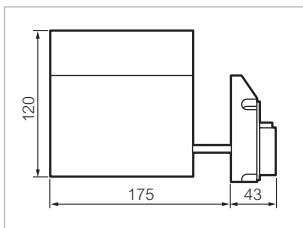
Red padlockable handle
for up to 4 padlocks
□ 96 yellow frame

**With engraving
MAIN SWITCH**

3P+ ± - 3 contacts 
3P+N - 4 contacts

Designation

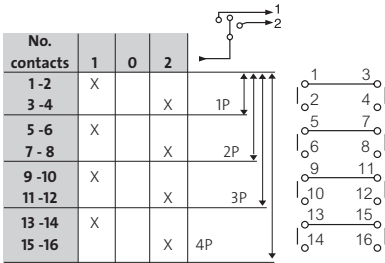
PR160 1103GN SV6 V963GND61	MS3RV973
PR160 1104GN SV6 V963GND61	MS4RV973



Cam switches

 Characteristics (p. 203)

▶ CHANGE-OVER SWITCH WITH “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21)

∅ 16 and ∅ 22 mm single hole front mounting

Cat. No.



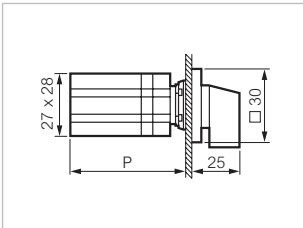
223505

30 aluminium plate and frame

- 1P - 2 contacts
- 2P - 4 contacts
- 3P - 6 contacts
- 4P - 8 contacts



223505
223506
223507
223508



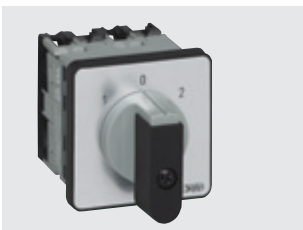
Dimensions in mm

- *P: 50 (1-2 CONTACTS)
- 62 (3-4 CONTACTS)
- 74 (5-6 CONTACTS)
- 96 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NC02GQ1

Designation

Grey/black small handle
 48 aluminium plate and frame

- 1P - 2 contacts
- 2P - 4 contacts
- 3P - 6 contacts
- 4P - 8 contacts



PR12 2201 C8 E Q48PN
PR12 2202 C8 E Q48PN
PR12 2203 C8 E Q48PN
PR12 2204 C8 E Q48PN

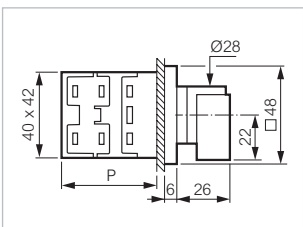
NC01GQ1
NC02GQ1
NC03GQ1
NC04GQ1

- 1P - 2 contacts
- 2P - 4 contacts
- 3P - 6 contacts



PR12 2201 C4 E Q48PN
PR12 2202 C4 E Q48PN
PR12 2203 C4 E Q48PN

NC01CQ1
NC02CQ1
NC03CQ1



Dimensions in mm

- *P: 36 (1-2 CONTACTS)
- 46 (3-4 CONTACTS)
- 56 (5-6 CONTACTS)
- 66 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

▶ CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

∅ 22 single hole front mounting

Cat. No.



NC02GX80

Grey/black small handle
□ 48 aluminium plate and frame

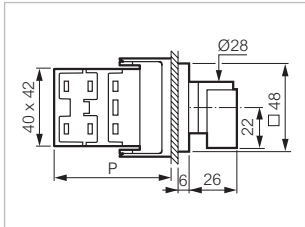
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR12 2201 C8 E N48MD50
PR12 2202 C8 E N48MD50
PR12 2203 C8 E N48MD50
PR12 2204 C8 E N48MD50

NC01GX80
NC02GX80
NC03GX80
NC04GX80



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)
71 (5-6 CONTACTS)
81 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

∅ 22 single hole front mounting

Cat. No.



NC02GC113

Black handle
Matt chrome plastic bezel

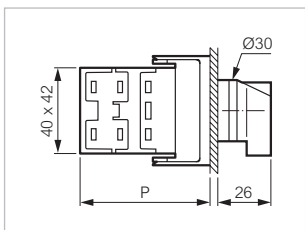
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR12 2201 C8 E C21RA03
PR12 2202 C8 E C21RA03
PR12 2203 C8 E C21RA03
PR12 2204 C8 E C21RA03

NC01GC113
NC02GC113
NC03GC113
NC04GC113



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)
71 (5-6 CONTACTS)
81 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

▶ CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

Enclosure

Cat. No.



NC01GXQ

Black small handle
 64 aluminium plate and frame

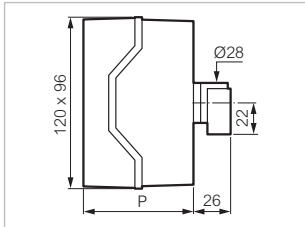
1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



Designation

PR12 2201 C8 BCQ3
 PR12 2202 C8 BCQ3
 PR12 2203 C8 BCQ3
 PR12 2204 C8 BCQ3

NC01GXQ
 NC02GXQ
 NC03GXQ
 NC04GXQ



Dimensions in mm
 *P: 77 (1 TO 6 CONTACTS)
 101 (7-8 CONTACTS)

PR 17 - 20 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



SC04GQ1

Grey/black small handle
 48 aluminium plate and frame

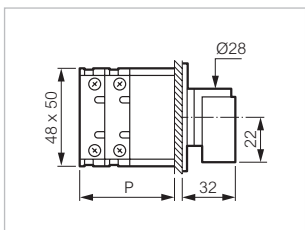
1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



Designation

PR17 2201 C8 E Q48PN
 PR17 2202 C8 E Q48PN
 PR17 2203 C8 E Q48PN
 PR17 2204 C8 E Q48PN

SC01GQ1
 SC02GQ1
 SC03GQ1
 SC04GQ1



Dimensions in mm
 *P: 33 (1-2 CONTACTS)
 45 (3-4 CONTACTS)
 57 (5-6 CONTACTS)
 69 (7-8 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

▶ CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 17 - 20 A (AC21)

Enclosure

Cat. No.



SC01GXQ

Designation

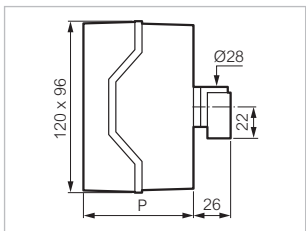
Black small handle
 64 aluminium plate and frame

1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



PR17 2201 C8 BCQ3
 PR17 2202 C8 BCQ3
 PR17 2203 C8 BCQ3
 PR17 2201 C8 BCQ3

SC01GXQ
 SC02GXQ
 SC03GXQ
 SC04GXQ



Dimensions in mm

*P: 77 (1 TO 6 CONTACTS)
 101 (7-8 CONTACTS)

PR 21 - 25 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



TC02GQ1

Designation

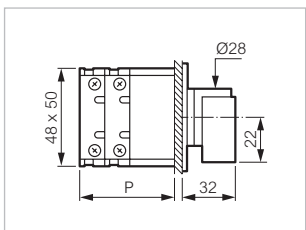
Grey/black small handle
 48 aluminium plate and frame

1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



PR21 2201 C8 E Q48PN
 PR21 2202 C8 E Q48PN
 PR21 2203 C8 E Q48PN
 PR21 2204 C8 E Q48PN

TC01GQ1
 TC02GQ1
 TC03GQ1
 TC04GQ1



Dimensions in mm

*P: 33 (1-2 CONTACTS)
 45 (3-4 CONTACTS)
 57 (5-6 CONTACTS)
 69 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

▶ CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 21 - 25 A (AC21)

Enclosure

Cat. No.



TC03GXQ

Designation

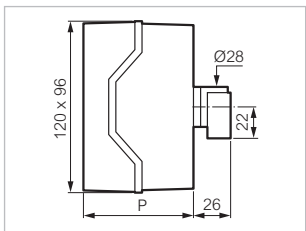
Black small handle
 64 aluminium plate and frame

1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



PR21 2201 C8 BCQ3
 PR21 2202 C8 BCQ3
 PR21 2203 C8 BCQ3
 PR21 2204 C8 BCQ3

TC01GXQ
TC02GXQ
 TC03GXQ
TC04GXQ



Dimensions in mm
 *P: 77 (1 TO 6 CONTACTS)
 101 (7-8 CONTACTS)

PR 26 - 32 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ZC02GQ7

Designation

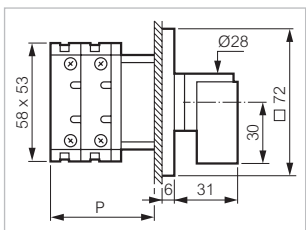
Grey/black medium handle
 72 aluminium plate and frame

1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



PR26 2201 C8 E Q72MN
 PR26 2202 C8 E Q72MN
 PR26 2203 C8 E Q72MN
 PR26 2204 C8 E Q72MN

ZC01GQ7
ZC02GQ7
 ZC03GQ7
ZC04GQ7



Dimensions in mm
 *P: 36 (1-2 CONTACTS)
 51 (3-4 CONTACTS)
 66 (5-6 CONTACTS)
 81 (7-8 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

▶ CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 26 - 32 A (AC21)

Enclosure

Cat. No.



ZC04GXQ

Black small handle
 64 aluminium plate and frame

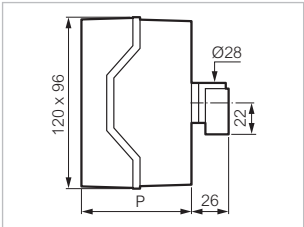
1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



Designation

PR26 2201 C8 BCQ3
 PR26 2202 C8 BCQ3
 PR26 2203 C8 BCQ3
 PR26 2204 C8 BCQ3

ZC01GXQ
 ZC02GXQ
 ZC03GXQ
ZC04GXQ



Dimensions in mm

*P: 77 (1 TO 6 CONTACTS)
 101 (7-8 CONTACTS)

PR 40 - 50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HC03GQ7

Grey/black medium handle
 72 aluminium plate and frame

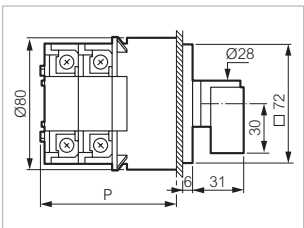
1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



Designation

PR40 2201 C8 E Q72MN
 PR40 2202 C8 E Q72MN
 PR40 2203 C8 E Q72MN
 PR40 2204 C8 E Q72MN

HC01GQ7
HC02GQ7
HC03GQ7
HC04GQ7



Dimensions in mm

*P: 60 (1-2 CONTACTS)
 80 (3-4 CONTACTS)
 100 (5-6 CONTACTS)
 120 (7-8 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

▶ CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 40 - 50 A (AC21)

Enclosure

Cat. No.



HC01GAQ

Grey/black medium handle
□ 72 aluminium plate and frame

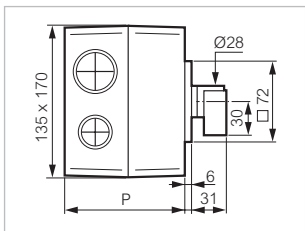
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR40 2201 C8 BCFQ72MN
PR40 2202 C8 BCFQ72MN
PR40 2203 C8 BCFQ72MN
PR40 2204 C8 BCFQ72MN

HC01GAQ
HC02GBQ
HC03GCQ
HC04GDQ



Dimensions in mm
*P: 107 (1 TO 4 CONTACTS)
145 (5 TO 8 CONTACTS)

PR 63 - 63 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



IC02GQ7

Grey/black medium handle
□ 72 aluminium plate and frame

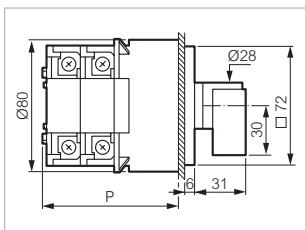
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR63 2201 C8 E Q72MN
PR63 2202 C8 E Q72MN
PR63 2203 C8 E Q72MN
PR63 2204 C8 E Q72MN

IC01GQ7
IC02GQ7
IC03GQ7
IC04GQ7



Dimensions in mm
*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)
100 (5-6 CONTACTS)
120 (7-8 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

▶ CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 63 - 63 A (AC21)

Enclosure

Cat. No.



IC02GBQ

Grey/black medium handle
□ 72 aluminium plate and frame

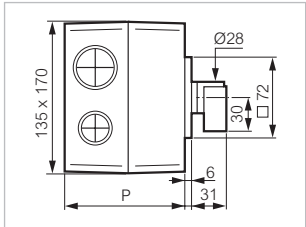
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR63 2201 C8 BCFQ72MN
PR63 2202 C8 BCFQ72MN
PR63 2203 C8 BCFQ72MN
PR63 2204 C8 BCFQ72MN

IC01GAQ
IC02GBQ
IC03GCQ
IC04GDQ



Dimensions in mm
*P: 107 (1 TO 4 CONTACTS)
145 (5 TO 8 CONTACTS)

PR 125 - 160 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



LC02GQ9

Grey/black large handle
□ 96 aluminium plate and frame

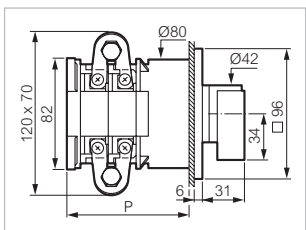
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR125 2201 C8 E Q96GN
PR125 2202 C8 E Q96GN
PR125 2203 C8 E Q96GN
PR125 2204 C8 E Q96GN

LC01GQ9
LC02GQ9
LC03GQ9
LC04GQ9



Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)
160 (5-6 CONTACTS)
200 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

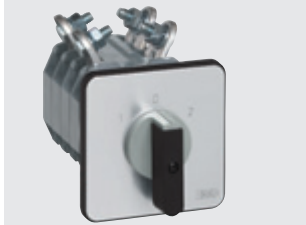
 Characteristics (p. 203)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 160 - 200 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



MC02GQ9

Grey/black large handle
 96 aluminium plate and frame

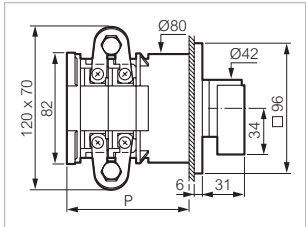
- 1P - 2 contacts
- 2P - 4 contacts
- 3P - 6 contacts
- 4P - 8 contacts



Designation

- PR160 2201 C8 E Q96GN
- PR160 2202 C8 E Q96GN
- PR160 2203 C8 E Q96GN
- PR160 2204 C8 E Q96GN

- MC01GQ9
- MC02GQ9
- MC03GQ9
- MC04GQ9



Dimensions in mm

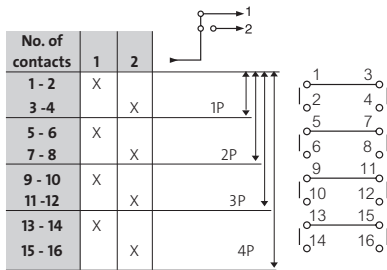
- *P: 80 (1-2 CONTACTS)
- 120 (3-4 CONTACTS)
- 160 (5-6 CONTACTS)
- 200 (7-8 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21)

∅ 16 and ∅ 22 mm single hole front mounting

Cat. No.



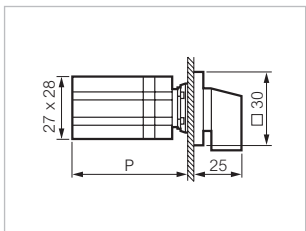
223511

30 aluminium plate and frame

- 1P - 2 contacts
- 2P - 4 contacts
- 3P - 6 contacts
- 4P - 8 contacts



- 223511**
- 223512**
- 223513**
- 223514**



Dimensions in mm

- *P: 50 (1-2 CONTACTS)
- 62 (3-4 CONTACTS)
- 74 (5-6 CONTACTS)
- 86 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NC53DQ1

Designation

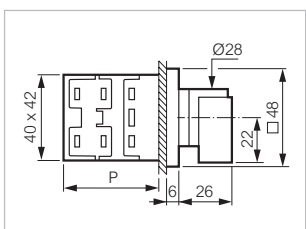
Grey/black small handle
 48 aluminium plate and frame

- 1P - 2 contacts
- 2P - 4 contacts
- 3P - 6 contacts
- 4P - 8 contacts



- PR12 2251 D4 E Q48PN
- PR12 2252 D4 E Q48PN
- PR12 2253 D4 E Q48PN
- PR12 2254 D4 E Q48PN

- NC51DQ1**
- NC51DQ1**
- NC53DQ1**
- NC54DQ1**



Dimensions in mm

- *P: 36 (1-2 CONTACTS)
- 46 (3-4 CONTACTS)
- 56 (5-6 CONTACTS)
- 66 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

▶ CHANGE-OVER SWITCH WITHOUT "OFF" POSITION (CONTINUED)

PR 12 - 16 A (AC21)

∅ 22 single hole front mounting

Cat. No.



NC53DX80

Grey/black small handle
□ 48 aluminium plate and frame

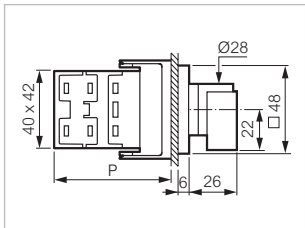
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2251 D4 E N48MD50
PR12 2252 D4 E N48MD50
PR12 2253 D4 E N48MD50
PR12 2254 D4 E N48MD50

NC51DX80
NC52DX80
NC53DX80
NC54DX80



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)
71 (5-6 CONTACTS)
81 (7-8 CONTACTS)

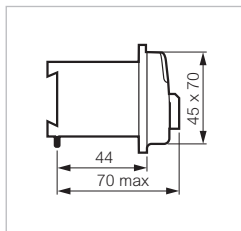
PR 12 - 16 A (AC21)

Modular in panel DIN rail mounting

Cat. No.



NDF15



Small grey handle

2P - 4 contacts



Designation

PR12 2202 C8 DF

NDF15

PR 12 - 16 A (AC21)

∅ 22 single hole front mounting

Cat. No.



NC52DC113

Black handle
Matt chrome plastic bezel

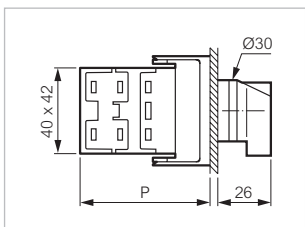
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2251 D4 E C21RA03
PR12 2252 D4 E C21RA03
PR12 2253 D4 E C21RA03
PR12 2254 D4 E C21RA03

NC51DC113
NC52DC113
NC53DC113
NC54DC113



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)
71 (5-6 CONTACTS)
81 (7-8 CONTACTS)


*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

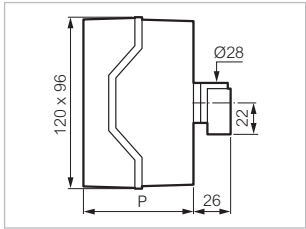
Cam switches

 Characteristics (p. 203)


► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)	Enclosure	Cat. No.
	<p>Designation</p> <p>Black small handle <input type="checkbox"/> 64 aluminium plate and frame</p> <p>1P - 2 contacts 2P - 4 contacts 3P - 6 contacts 4P - 8 contacts</p>	<p>PR12 2251 D4 BCQ3 PR12 2252 D4 BCQ3 PR12 2253 D4 BCQ3 PR12 2254 D4 BCQ3</p> <p>NC51DXQ NC52DXQ NC53DXQ NC54DXQ</p>

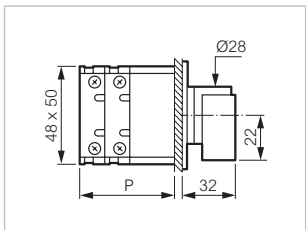
NC51DXQ



Dimensions in mm
 *P: 77 (1 TO 6 CONTACTS)
 101 (7 TO 8 CONTACTS)

PR 17 - 20 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
	<p>Designation</p> <p>Grey/black small handle <input type="checkbox"/> 48 aluminium plate and frame</p> <p>1P - 2 contacts 2P - 4 contacts 3P - 6 contacts 4P - 8 contacts</p>	<p>PR17 2251 D4 E Q48PN PR17 2252 D4 E Q48PN PR17 2253 D4 E Q48PN PR17 2254 D4 E Q48PN</p> <p>SC51DQ1 SC52DQ1 SC53DQ1 SC54DQ1</p>

SC52DQ1



Dimensions in mm
 *P: 33 (1-2 CONTACTS)
 45 (3-4 CONTACTS)
 57 (5-6 CONTACTS)
 69 (7-8 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 17 - 20 A (AC21)

Enclosure

Cat. No.



SC51DXQ

Designation

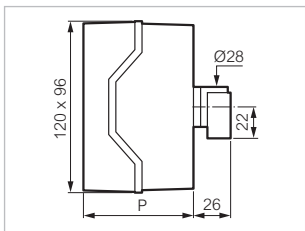
Black small handle
 64 aluminium plate and frame

1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



PR17 2251 D4 BCQ3
 PR17 2252 D4 BCQ3
 PR17 2253 D4 BCQ3
 PR17 2254 D4 BCQ3

SC51DXQ
 SC52DXQ
 SC53DXQ
 SC54DXQ



Dimensions in mm
 *P: 77 (1 TO 6 CONTACTS)
 101 (7 TO 8 CONTACTS)

PR 21 - 25 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



TC51DQ1

Designation

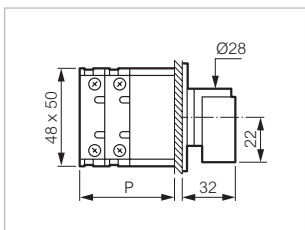
Grey/black small handle
 48 aluminium plate and frame

1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



PR21 2251 D4 E Q48PN
 PR21 2252 D4 E Q48PN
 PR21 2253 D4 E Q48PN
 PR21 2254 D4 E Q48PN

TC51DQ1
 TC52DQ1
 TC53DQ1
 TC54DQ1



Dimensions in mm
 *P: 33 (1-2 CONTACTS)
 45 (3-4 CONTACTS)
 57 (5-6 CONTACTS)
 69 (7-8 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 21 - 25 A (AC21)

Enclosure

Cat. No.



TC53DXQ

Black small handle
 64 aluminium plate and frame

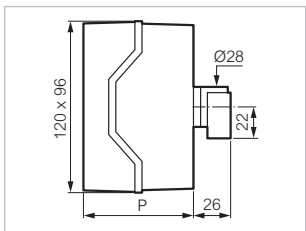
1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



Designation

PR21 2251 D4 BCQ3
 PR21 2252 D4 BCQ3
 PR21 2253 D4 BCQ3
 PR21 2254 D4 BCQ3

TC51DXQ
 TC52DXQ
 TC53DXQ
 TC54DXQ



Dimensions in mm
 *P: 77 (1 TO 6 CONTACTS)
 101 (7 TO 8 CONTACTS)

PR 26 - 32 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ZC52DQ7

Grey/black medium handle
 72 aluminium plate and frame

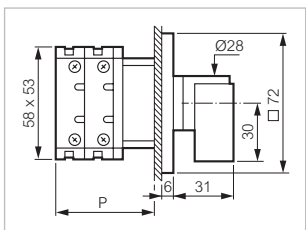
1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



Designation

PR26 2251 D4 E Q72MN
 PR26 2252 D4 E Q72MN
 PR26 2253 D4 E Q72MN
 PR26 2254 D4 E Q72MN

ZC51DQ7
ZC52DQ7
 ZC53DQ7
 ZC54DQ7



Dimensions in mm
 *P: 36 (1-2 CONTACTS)
 51 (3-4 CONTACTS)
 66 (5-6 CONTACTS)
 81 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 26 - 32 A (AC21)

Enclosure

Cat. No.



ZC51DXQ

Designation

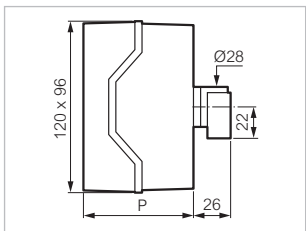
Black small handle
 64 aluminium plate and frame

1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



PR26 2251 D4 BCQ3
 PR26 2252 D4 BCQ3
 PR26 2253 D4 BCQ3
 PR26 2254 D4 BCQ3

ZC51DXQ
 ZC52DXQ
 ZC53DXQ
 ZC54DXQ



Dimensions in mm
 *P: 77 (1 TO 4 CONTACTS)
 101 (5 TO 8 CONTACTS)

PR 40 - 50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HC52DQ7

Designation

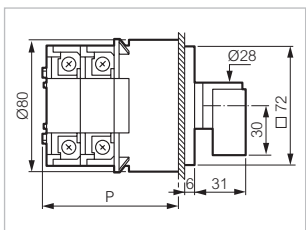
Grey/black medium handle
 72 aluminium plate and frame

1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



PR40 2251 D4 E Q72MN
 PR40 2252 D4 E Q72MN
 PR40 2253 D4 E Q72MN
 PR40 2254 D4 E Q72MN

HC51DQ7
 HC52DQ7
 HC53DQ7
 HC54DQ7



Dimensions in mm
 *P: 60 (1-2 CONTACTS)
 80 (3-4 CONTACTS)
 100 (5-6 CONTACTS)
 120 (7-8 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 40 - 50 A (AC21) **Enclosure** **Cat. No.**



HC52DBQ

Grey/black medium handle
 □ 72 aluminium plate and frame

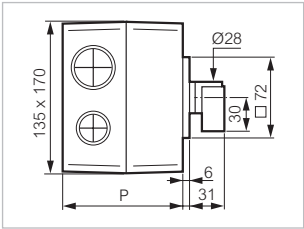
Designation

1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



PR40 2251 D4 BCF Q72MN
 PR40 2252 D4 BCF Q72MN
 PR40 2253 D4 BCF Q72MN
 PR40 2254 D4 BCF Q72MN

HC51DAQ
 HC52DBQ
 HC53DCQ
 HC54DDQ



Dimensions in mm
 *P: 107 (1 TO 4 CONTACTS)
 145 (5 À 8 CONTACTS)

PR 63 - 63 A (AC21) **2-screw panel mount - interval: 50 mm** **Cat. No.**



IC51DQ7

Grey/black medium handle
 □ 72 aluminium plate and frame

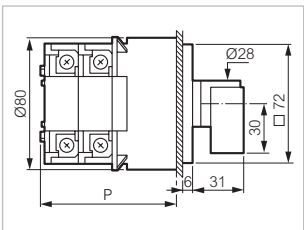
Designation

1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts



PR63 2251 D4 E Q72MN
 PR63 2252 D4 E Q72MN
 PR63 2253 D4 E Q72MN
 PR63 2254 D4 E Q72MN

IC51DQ7
 IC52DQ7
 IC53DQ7
 IC54DQ7



Dimensions in mm
 *P: 60 (1-2 CONTACTS)
 80 (3-4 CONTACTS)
 100 (5-6 CONTACTS)
 120 (7-8 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 63 - 63 A (AC21)

Enclosure

Cat. No.



IC52DBQ

Grey/black medium handle
□ 72 aluminium plate and frame

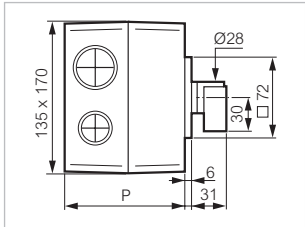
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR63 2251 D4 BCF Q72MN
PR63 2252 D4 BCF Q72MN
PR63 2253 D4 BCF Q72MN
PR63 2254 D4 BCF Q72MN

IC51DAQ
IC52DBQ
IC53DCQ
IC54DDQ



Dimensions in mm
*P: 107 (1 TO 4 CONTACTS)
145 (5 À 8 CONTACTS)

PR 125 - 160 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



LC52DQ9

Grey/black large handle
□ 96 aluminium plate and frame

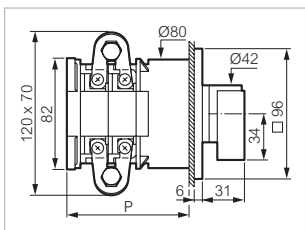
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR125 2251 D4 E Q96GN
PR125 2252 D4 E Q96GN
PR125 2253 D4 E Q96GN
PR125 2254 D4 E Q96GN

LC51DQ9
LC52DQ9
LC53DQ9
LC54DQ9



Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)
160 (5-6 CONTACTS)
200 (7-8 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 160 - 200 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



MC52DQ9

Designation

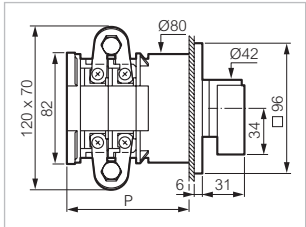
Grey/black large handle
 96 aluminium plate and frame

- 1P - 2 contacts
- 2P - 4 contacts
- 3P - 6 contacts
- 4P - 8 contacts



- PR160 2251 D4 E Q96GN
- PR160 2252 D4 E Q96GN
- PR160 2253 D4 E Q96GN
- PR160 2254 D4 E Q96GN

- MC51DQ9
- MC52DQ9
- MC53DQ9
- MC54DQ9



Dimensions in mm

- *P: 80 (1-2 CONTACTS)
- 120 (3-4 CONTACTS)
- 160 (5-6 CONTACTS)
- 200 (7-8 CONTACTS)

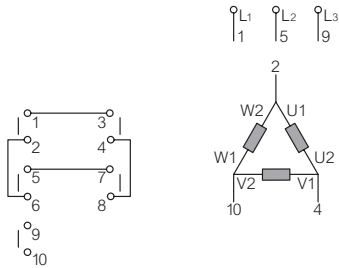
*P = Depth

Cam switches

 Characteristics (p. 203)

▶ 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED

No. of contacts	REV	0	FWD
1-2	X		
3-4			X
5-6			X
7-8	X		
9-10	X		X



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NZ11GQ1

Designation

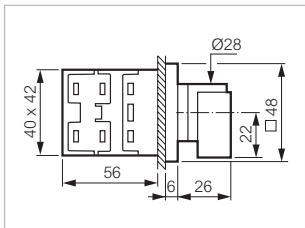
Grey/black small handle
 48 aluminium plate and frame
 P= 4 kW in 400 V

5 contacts



PR12 9151 C8 E Q48PN

NZ11GQ1



PR 12 - 16 A (AC21)

Enclosure

Cat. No.



NZ11GXQ

Designation

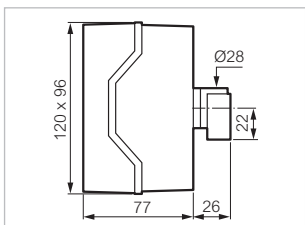
Black small handle
 64 aluminium plate and frame
 P= 4 kW in 400 V

5 contacts



PR12 9151 C8 BCQ3

NZ11GXQ



Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

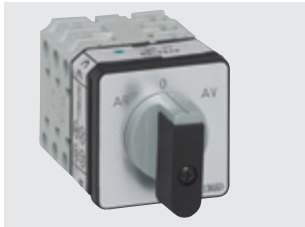
 Characteristics (p. 203)

▶ 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 17 - 20 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



SZ11GQ1

Grey/black small handle
 □ 48 aluminium plate and frame
 P= 7.5 kW in 400 V

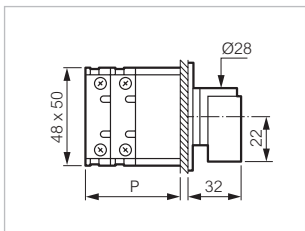
5 contacts



Designation

PR17 9151 C8 E Q48PN

SZ11GQ1



PR 17 - 20 A (AC21)

Enclosure

Cat. No.



SZ11GXQ

Black small handle
 □ 64 aluminium plate and frame
 P= 7.5 kW in 400 V

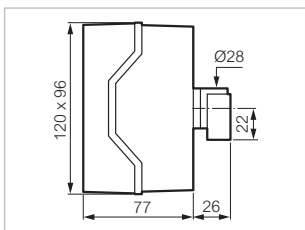
5 contacts



Designation

PR17 9151 C8 BCQ3

SZ11GXQ



Cam switches

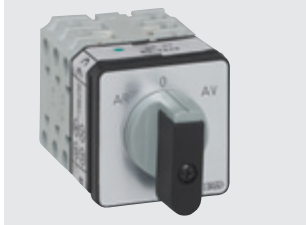
 Characteristics (p. 203)

▶ 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 21 - 25 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



TZ11GQ1

Grey/black small handle
 □ 48 aluminium plate and frame
 P= 7.5 kW in 400 V

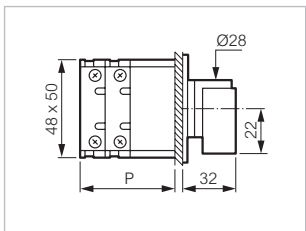
Designation

5 contacts



PR21 9151 C8 E Q48PN

TZ11GQ1



PR 21 - 25 A (AC21)

Enclosure

Cat. No.



TZ11GXQ

Black small handle
 □ 64 aluminium plate and frame
 P= 7.5 kW in 400 V

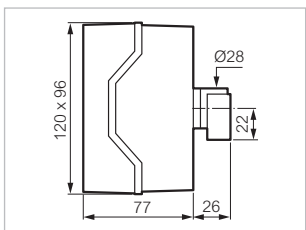
Designation

5 contacts



PR21 9151 C8 BCQ3

TZ11GXQ



Cam switches

 Characteristics (p. 203)

► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 26 - 32 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ZZ11GQ7

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 11 kW in 400 V

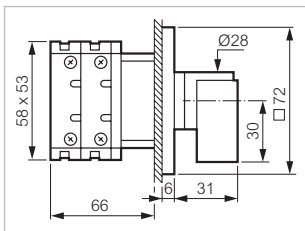
5 contacts



Designation

PR26 9151 C8 E Q72MN

ZZ11GQ7



PR 26 - 32 A (AC21)

Enclosure

Cat. No.



ZZ11GXQ

Black small handle
 □ 64 aluminium plate and frame
 P= 11 kW in 400 V

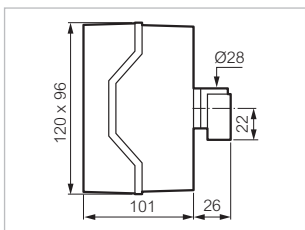
5 contacts



Designation

PR26 9151 C8 BCQ3

ZZ11GXQ



Cam switches

 Characteristics (p. 203)

▶ 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 40 - 50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HZ11GQ7

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 18.5 kW in 400 V

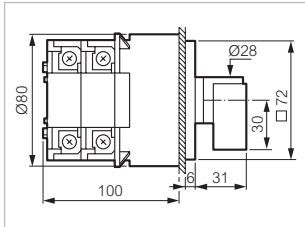
5 contacts



Designation

PR40 9151 C8 E Q72MN

HZ11GQ7



PR 40 - 50 A (AC21)

Enclosure

Cat. No.



HZ11GCQ

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 18.5 kW in 400 V

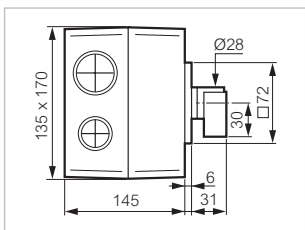
5 contacts



Designation

PR40 9151 C8 BCF Q72MN

HZ11GCQ



Cam switches

 Characteristics (p. 203)

▶ 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 63 - 63 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



IZ11GQ7

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 22 kW in 400 V

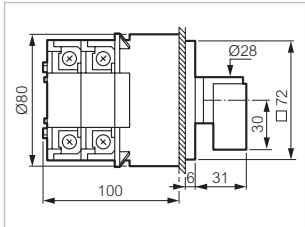
5 contacts



Designation

PR63 9151 C8 E Q72MN

IZ11GQ7



PR 63 - 63 A (AC21)

Enclosure

Cat. No.



IZ11GXQ

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 22 kW in 400 V

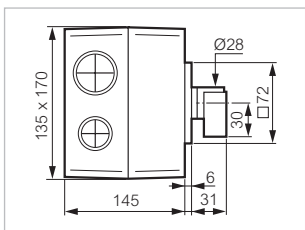
5 contacts



Designation

PR63 9151 C8 BCF Q72MN

IZ11GXQ

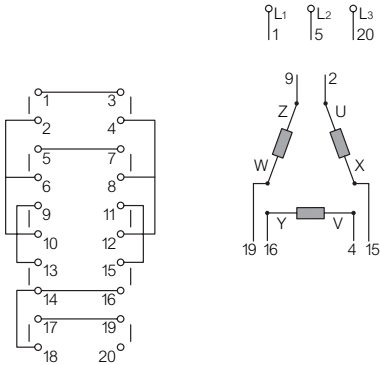


Cam switches

 Characteristics (p. 203)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR

No. of contacts	REV			FWD	
	Δ	Y	0	Δ	Y
1 - 2				X	X
3 - 4	X	X			
5 - 6	X	X			
7 - 8				X	X
9 - 10	X				X
11 - 12	X				X
13 - 14		X	X		
15 - 16		X	X		
17 - 18	X			X	X
19 - 20	X	X		X	X



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NZ13GQ1

Designation

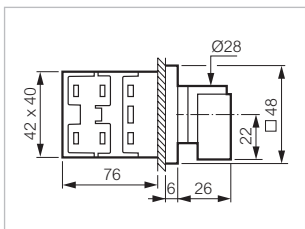
Grey/black small handle
 □ 48 aluminium plate and frame
 P= 4 kW in 400 V

10 contacts



PR12 9153 C8 E Q48PN

NZ13GQ1



Cam switches

 Characteristics (p. 203)

▶ 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 12 - 16 A (AC21)

Enclosure

Cat. No.



NZ13GXQ

Black small handle
 64 aluminium plate and frame
 P= 4 kW in 400 V

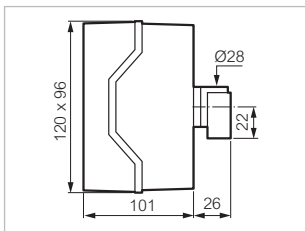
10 contacts



Designation

PR12 9153 C8 BCQ3

NZ13GXQ



PR 17 - 20 A (AC21)

2-crew panel mount – interval: 30 mm

Cat. No.



SZ13GQ1

Grey/black small handle
 48 aluminium plate and frame
 P= 7.5 kW in 400 V

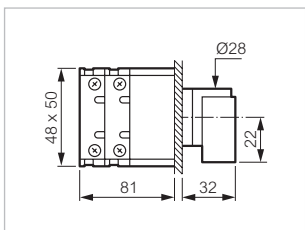
10 contacts



Designation

PR17 9153 C8 E Q48PN

SZ13GQ1



Cam switches

 Characteristics (p. 203)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 17 - 20 A (AC21)

Enclosure

Cat. No.



SZ13GXQ

Black small handle
 □ 64 aluminium plate and frame
 P= 7.5 kW in 400 V

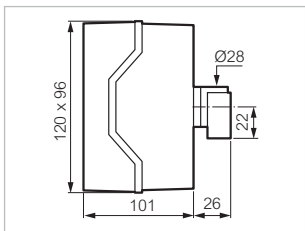
10 contacts



Designation

PR17 9153 C8 BCQ3

SZ13GXQ



PR 21 - 25 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



TZ13GQ1

Grey/black small handle
 □ 48 aluminium plate and frame
 P= 7.5 kW in 400 V

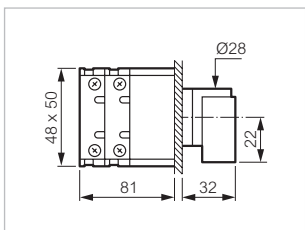
10 contacts



Designation

PR21 9153 C8 E Q48PN

TZ13GQ1



Cam switches

 Characteristics (p. 203)

▶ 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 21 - 25 A (AC21) **Enclosure** **Cat. No.**



TZ13GXQ

Black small handle
 □ 64 aluminium plate and frame
 P= 7.5 kW in 400 V

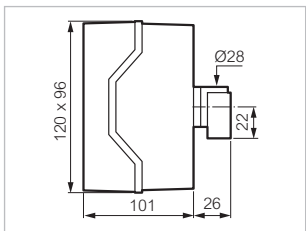
10 contacts



Designation

PR21 9153 C8 BCQ3

TZ13GXQ



PR 26 - 32 A (AC21) **2-screw panel mount – interval: 30 mm** **Cat. No.**



ZZ13GQ7

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 11 kW in 400 V

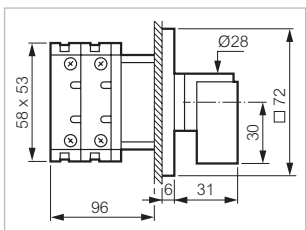
10 contacts



Designation

PR26 9153 C8 E Q72MN

ZZ13GQ7



Cam switches

 Characteristics (p. 203)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 40 - 50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HZ13GQ7

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 18.5 kW in 400 V

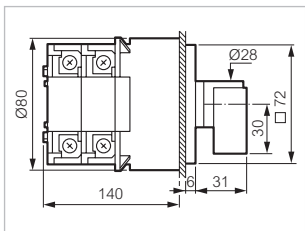
10 contacts



Designation

PR40 9153 C8 E Q72MN

HZ13GQ7



PR 63 - 63 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



IZ13GQ7

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 22 kW in 400 V

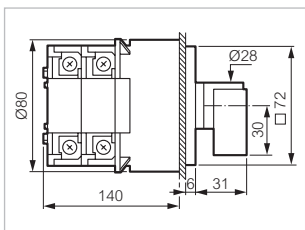
10 contacts



Designation

PR63 9153 C8 E Q72MN

IZ13GQ7

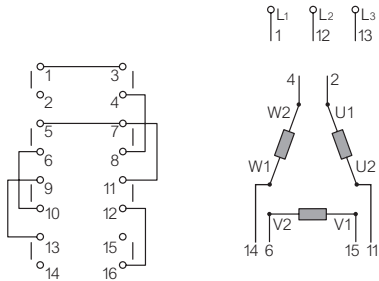


Cam switches

 Characteristics (p. 203)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR

No. of contacts	0	Y	Δ
1 - 2		X-X	
3 - 4		X	
5 - 6	X-X		
7 - 8	X-X		
9 - 10			X
11 - 12			X
13 - 14	X-X		
15 - 16	X-X		



PR 12 - 16 A (AC21)

2- screw panel mount – interval: 30 mm

Cat. No.



NZ51BQ1

Designation

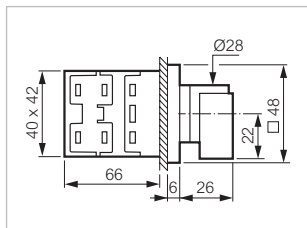
Grey/black small handle
 48 aluminium plate and frame
 P= 4 kW in 400 V

8 contacts



PR12 9551 B4 E Q48PN

NZ51BQ1



PR 12 - 16 A (AC21)

Enclosure

Cat. No.



NZ51BXQ

Designation

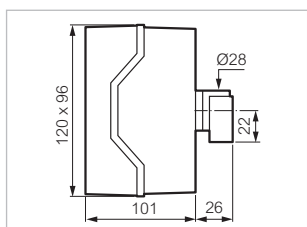
Black small handle
 64 aluminium plate and frame
 P= 4 kW in 400 V

8 contacts



PR12 9551 B4 BCQ3

NZ51BXQ



Cam switches

 Characteristics (p. 203)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 17 - 20 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



SZ51BQ1

Grey/black small handle
 □ 48 aluminium plate and frame
 P= 7.5 kW in 400 V

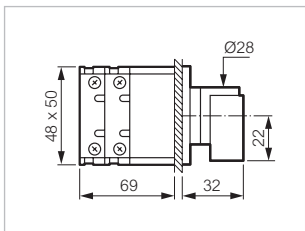
8 contacts



Designation

PR17 9551 B4 E Q48PN

SZ51BQ1



PR 17 - 20 A (AC21)

Enclosure

Cat. No.



SZ51BXQ

Black small handle
 □ 64 aluminium plate and frame
 P= 7.5 kW in 400 V

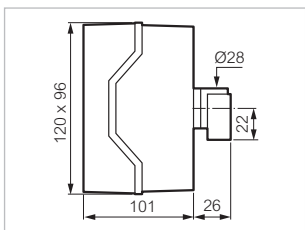
8 contacts



Designation

PR17 9551 B4 BCQ3

SZ51BXQ



Cam switches

 Characteristics (p. 203)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 21 - 25 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



TZ51BQ1

Designation

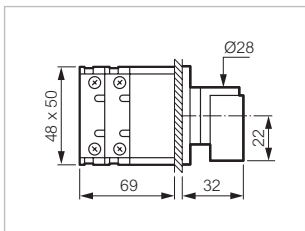
Grey/black small handle
 □ 48 aluminium plate and frame
 P= 7.5 kW in 400 V

8 contacts



PR21 9551 B4 E Q48PN

TZ51BQ1



PR 21 - 25 A (AC21)

Enclosure

Cat. No.



TZ51BXQ

Designation

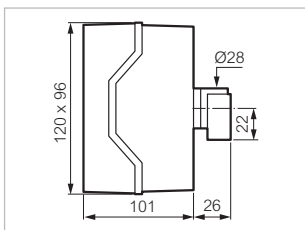
Black small handle
 □ 64 aluminium plate and frame
 P= 7.5 kW in 400 V

8 contacts



PR21 9551 B4 BCQ3

TZ51BXQ



Cam switches

 Characteristics (p. 203)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 26 - 32 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ZZ51BQ7

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 11 kW in 400 V

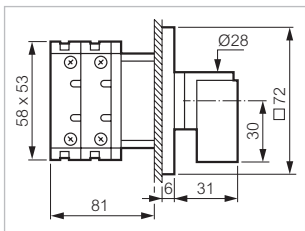
8 contacts



Designation

PR26 9551 B4 E Q72MN

ZZ51BQ7



PR 26 - 32 A (AC21)

Enclosure

Cat. No.



ZZ51BXQ

Black small handle
 □ 64 aluminium plate and frame
 P= 11 kW in 400 V

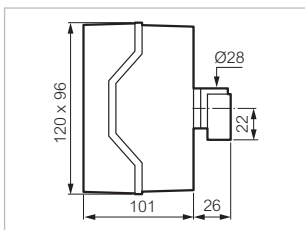
8 contacts



Designation

PR26 9551 B4 BCQ3

ZZ51BXQ



Cam switches

 Characteristics (p. 203)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 40 - 50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HZ51BQ7

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 18.5 kW in 400 V

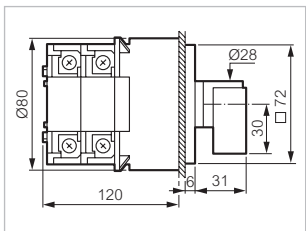
8 contacts



Designation

PR40 9551 B4 E Q72MN

HZ51BQ7



PR 40 - 50 A (AC21)

Enclosure

Cat. No.



HZ51BDQ

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 18.5 kW in 400 V

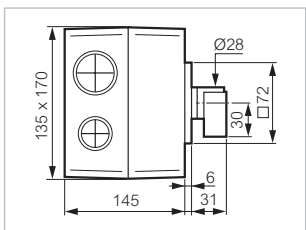
8 contacts



Designation

PR40 9551 B4 BCF Q72MN

HZ51BDQ



Cam switches

 Characteristics (p. 203)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 63 - 63 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



IZ51BQ7

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 22 kW in 400 V

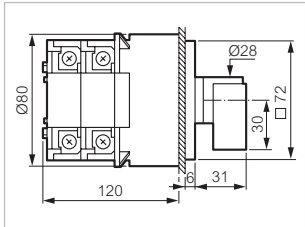
8 contacts



Designation

PR63 9551 B4 E Q72MN

IZ51BQ7



PR 63 - 63 A (AC21)

Enclosure

Cat. No.



HZ51BDQ

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 22 kW in 400 V

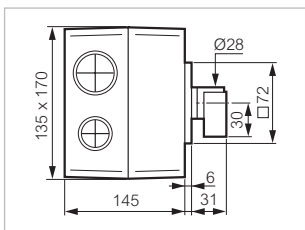
8 contacts



Designation

PR63 9551 B4 BCF Q72MN

HZ51BDQ

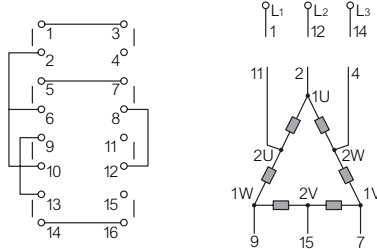


Cam switches

 Characteristics (p. 203)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR

No. of contacts				No. of contacts			
LS	0	HS		0	LS	HS	
1-2	X			1-2	X		
3-4			X	3-4			X
5-6			X	5-6			X
7-8	X			7-8		X	
9-10			X	9-10			X
11-12			X	11-12			X
13-14	X			13-14		X	
15-16			X	15-16			X



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NZ52CQ1

Grey/black small handle
□ 48 aluminium plate and frame
P= 4 kW in 400 V

Designation

8 contacts



PR12 9552 B4 E Q48PN

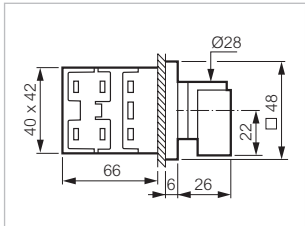
NZ52BQ1

8 contacts



PR12 9552 C4 E Q48PN

NZ52CQ1



PR 12 - 16 A (AC21)

Enclosure

Cat. No.



NZ52CXQ

Black small handle
□ 64 aluminium plate and frame
P= 4 kW in 400 V

Designation

8 contacts



PR12 9552 B4 BCQ3

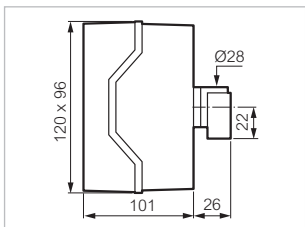
NZ52BXQ

8 contacts



PR12 9552 C4 BCQ3

NZ52CXQ



Cam switches

 Characteristics (p. 203)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)



PR 17 - 20 A (AC21)

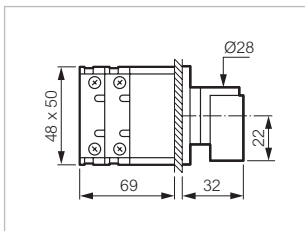
2-screw panel mount – interval: 30 mm

Cat. No.



SZ52BQ1

		Designation	
Grey/black small handle □ 48 aluminium plate and frame P= 7.5 kW in 400 V			
8 contacts		PR17 9552 B4 E Q48PN	SZ52BQ1
8 contacts		PR17 9552 C4 E Q48PN	SZ52CQ1





PR 17 - 20 A (AC21)

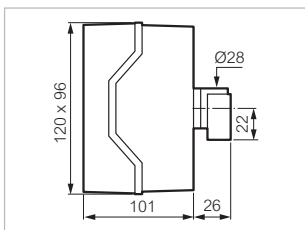
Enclosure

Cat. No.



SZ52BXQ

		Designation	
Black small handle □ 64 aluminium plate and frame P= 7.5 kW in 400 V			
8 contacts		PR17 9552 B4 BCQ3	SZ52BXQ
8 contacts		PR17 9552 C4 BCQ3	SZ52CXQ



Cam switches

 Characteristics (p. 203)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

PR 21 - 25 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



TZ52BQ1

Designation

Grey/black small handle
 □ 48 aluminium plate and frame
 P= 7.5 kW in 400 V

8 contacts



PR21 9552 B4 E Q48PN

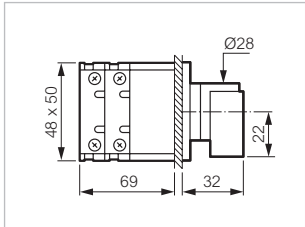
TZ52BQ1

8 contacts



PR21 9552 C4 E Q48PN

TZ52CQ1



PR 21 - 25 A (AC21)

Enclosure

Cat. No.



TZ52BXQ

Designation

Black small handle
 □ 64 aluminium plate and frame
 P= 7.5 kW in 400 V

8 contacts



PR21 9552 B4 BCQ3

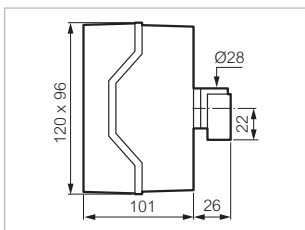
TZ52BXQ

8 contacts



PR21 9552 C4 BCQ3

TZ52CXQ



Cam switches

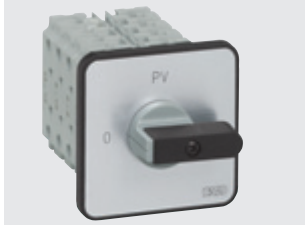
 Characteristics (p. 203)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

PR 26 - 32 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ZZ52BQ7

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 11 kW in 400 V

Designation

8 contacts



PR26 9552 B4 E Q72MN

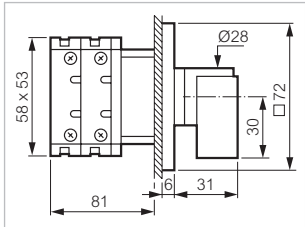
ZZ52BQ7

8 contacts



PR26 9552 C4 E Q72MN

ZZ52CQ7



PR 26 - 32 A (AC21)

Enclosure

Cat. No.



ZZ52BXQ

Black small handle
 □ 64 aluminium plate and frame
 P= 11 kW in 400 V

Designation

8 contacts



PR26 9552 B4 BCQ3

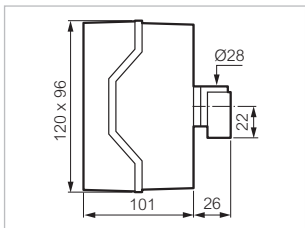
ZZ52BXQ

8 contacts



PR26 9552 C4 BCQ3

ZZ52CXQ



Cam switches

 Characteristics (p. 203)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

PR 40 - 50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HZ52BQ7

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 18.5 kW in 400 V

Designation

8 contacts



PR40 9552 B4 E Q72MN

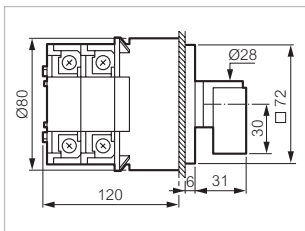
HZ52BQ7

8 contacts



PR40 9552 C4 E Q72MN

HZ52CQ7



PR 40 - 50 A (AC21)

Enclosure

Cat. No.



HZ52BDQ

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 18.5 kW in 400 V

Designation

8 contacts



PR40 9552 B4 BCF Q72MN

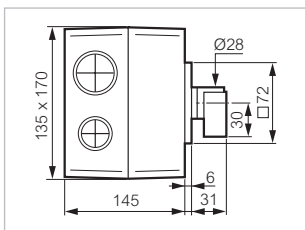
HZ52BDQ

8 contacts



PR40 9552 C4 BCF Q72MN

HZ52CDQ



Cam switches

 Characteristics (p. 203)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

PR 63 - 63 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



IZ52BQ7

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 22 kW in 400 V

Designation

8 contacts



PR63 9552 B4 E Q72MN

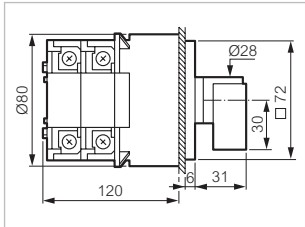
IZ52BQ7

8 contacts



PR63 9552 C4 E Q72MN

IZ52CQ7



PR 63 - 63 A (AC21)

Enclosure

Cat. No.



IZ52BDQ

Grey/black medium handle
 □ 72 aluminium plate and frame
 P= 22 kW in 400 V

Designation

8 contacts



PR63 9552 B4 BCF Q72MN

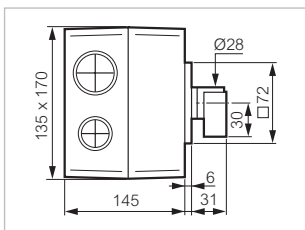
HZ52BDQ

8 contacts



PR63S 9552 C4 BCF Q72MN

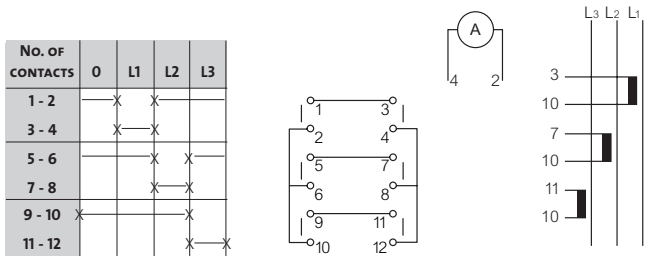
HZ52CDQ



Cam switches

 Characteristics (p. 203)

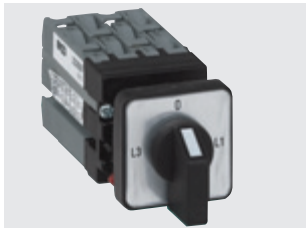
► **AMMETER SWITCH, 3 CTS WITH COMMON POINT**



MINI CAM SWITCH - 10 A (AC21)

ø 16 or 22 single hole front mounting

Cat. No.



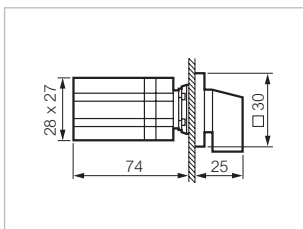
223529

□ 30 aluminium plate and frame
1 network, 3 wires, 1 ammeter

6 contacts



223529



Cam switches

 Characteristics (p. 203)

▶ AMMETER SWITCH, 3 CTS WITH COMMON POINT (CONTINUED)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NY11AQ1

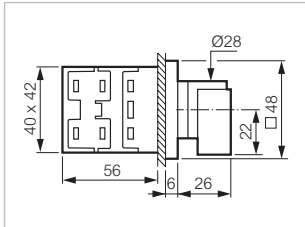
Grey/black small handle
 □ 48 aluminium plate and frame
 1 network, 3 wires, 1 ammeter
 6 contacts



Designation

PR12 8151 A4 E Q48PN

NY11AQ1



PR 12 - 16 A (AC21)

∅ 22 single hole front mounting

Cat. No.



NY11AX80

Grey/black small handle
 □ 48 aluminium plate and frame
 1 network, 3 wires, 1 ammeter

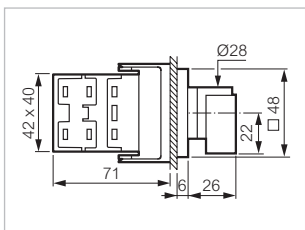


6 contacts

Designation

PR12 8151 A4 E N48MD50

NY11AX80

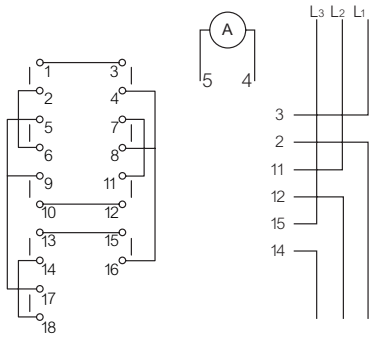


Cam switches

 Characteristics (p. 203)

► AMMETER SWITCH, WITHOUT CT

No. of contacts	0	L1	L2	L3
1 - 2	X	X		
3 - 4	X	X		
5 - 6	X	X		
7 - 8		X	X	
9 - 10		X	X	
11 - 12		X	X	
13 - 14	X		X	X
15 - 16		X	X	X
17 - 18		X	X	X



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NY14AQ1

Designation

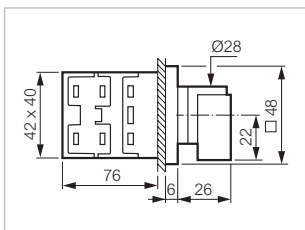
Grey/black small handle
 □ 48 aluminium plate and frame
 1 network, 3 wires, 1 ammeter

9 contacts



PR12 8164 A4 E Q48PN

NY14AQ1



PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NY14AX80

Designation

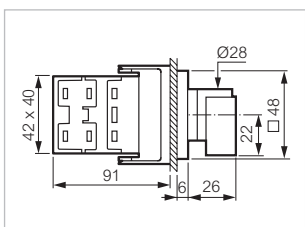
Grey/black small handle
 □ 48 aluminium plate and frame
 1 network, 3 wires, 1 ammeter

9 contacts



PR12 8164 A4 E N48MD50

NY14AX80

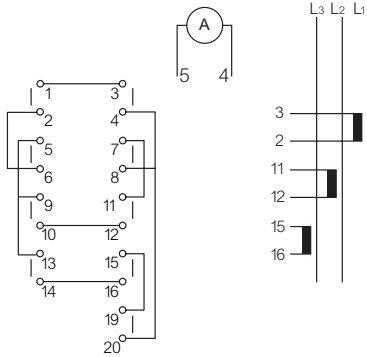


Cam switches

 Characteristics (p. 203)

▶ AMMETER SWITCH WITHOUT COMMON POINT

No. OF CONTACTS	0	L1	L2	L3
1 - 2	X	X		
3 - 4	X	X		
5 - 6	X	X		
7 - 8		X	X	
9 - 10		X	X	
11 - 12		X	X	
13 - 14			X	X
15 - 16	X		X	
19 - 20			X	X



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NY17AQ1

Designation

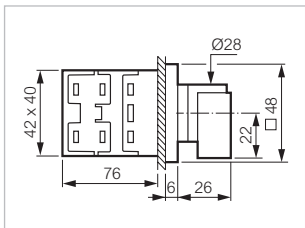
Grey/black small handle
 48 aluminium plate and frame
 1 network, 3 wires, 1 ammeter

9 contacts



PR12 8157 A4 E Q48PN

NY17AQ1



PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NY17AX80

Designation

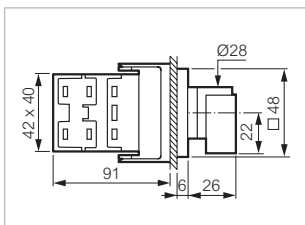
Grey/black small handle
 48 aluminium plate and frame
 1 network, 3 wires, 1 ammeter

9 contacts



PR12 8157 A4 E N48MD50

NY17AX80

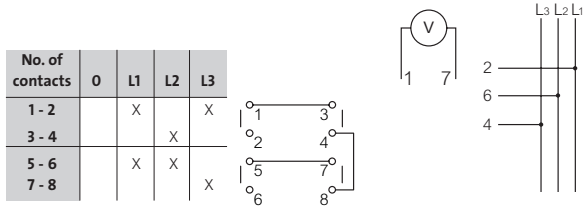


Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

► **VOLTMETER SWITCH, WITHOUT NEUTRAL**



MINI CAM SWITCH - 10 A (AC21)

ø 16 or 22 single hole front mounting

Cat. No.



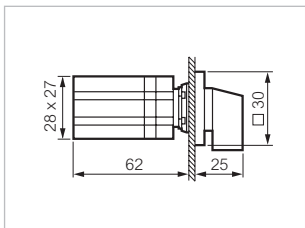
223527

- 30 aluminium plate and frame
- 1 network, 3-phase without neutral
- 1 voltmeter

4 contacts



223527



Cam switches

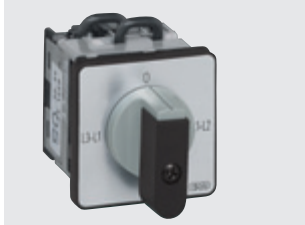
 Characteristics (p. 203)

► **VOLTMETER SWITCH, WITHOUT NEUTRAL (CONTINUED)**

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NY31AQ1

Grey/black small handle
 □ 48 aluminium plate and frame
 1 network, 3-phase without neutral
 1 voltmeter

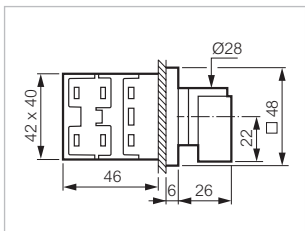
4 contacts



Designation

PR12 8351 A4 E Q48PN

NY31AQ1



PR 12 - 16 A (AC21)

∅ 22 single hole front mounting

Cat. No.



NY31AX80

Grey/black small handle
 □ 48 aluminium plate and frame
 1 network, 3-phase without neutral
 1 voltmeter

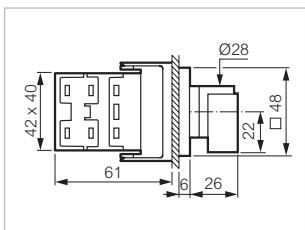
4 contacts



Designation

PR12 8351 A4 E N48MD50

NY31AX80

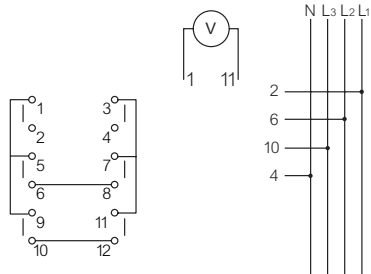


Cam switches

 Characteristics (p. 203)

► VOLTMETER SWITCH, WITH NEUTRAL

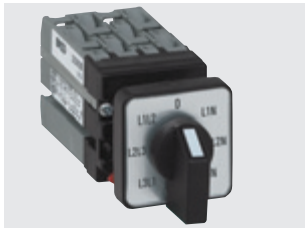
No. of contacts	L3 L1	L2 L3	L1 L2	0 0	L1 N	L2 N	L3 N
1 - 2	X		X		X		
3 - 4					X	X	X
5 - 6		X				X	
7 - 8			X				
9 - 10							X
11 - 12	X	X					



MINI CAM SWITCH - 10 A (AC21)

Ø 16 or 22 single hole front mounting

Cat. No.



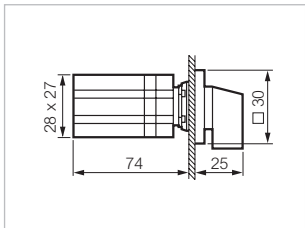
223528

30 aluminium plate and frame
1 network, 3-phase with neutral,
1 voltmeter

4 contacts



223528



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NY37GQ1

Designation

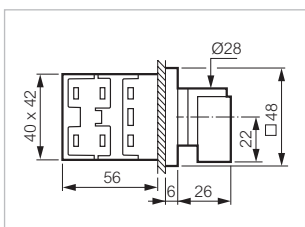
Grey/black small handle
 48 aluminium plate and frame
1 network, 3-phase with neutral,
1 voltmeter

6 contacts



PR12 8357 C8 E Q48PN

NY37GQ1



Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

► VOLTMETER SWITCH, WITH NEUTRAL (CONTINUED)

PR 12 - 16 A (AC21)

ø22 single hole front mounting

Cat. No.



NY37GX80

Grey/black small handle
 □ 48 aluminium plate and frame
 1 network, 3-phase with neutral,
 1 voltmeter

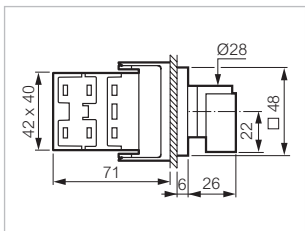
6 contacts



Designation

PR12 8357 C8 E N48MD50

NY37GX80



PR 12 - 16 A (AC21)

Modular in panel DIN rail mounting

Cat. No.



NDF03

Small grey handle
 1 network, 3-phase with neutral,
 1 voltmeter

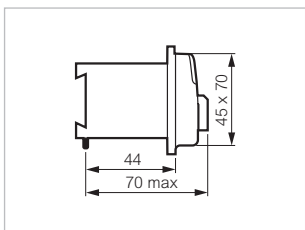
6 contacts



Designation

PR12 8357 C8 DF

NDF03

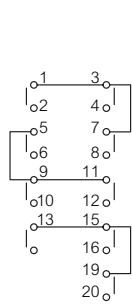


Cam switches

 Characteristics (p. 203)

► 3-WAY SWITCHES WITH “OFF” POSITION

No. of contacts	0	1	2	3
1-2		X		
3-4			X	
7-8				X
5-6			X	X
9-10			X	
11-12		X		
13-14		X		
15-16			X	
19-20				X



MINI CAM SWITCH - 10 A (AC21)

Ø 16 or 22 single hole front mounting

Cat. No.



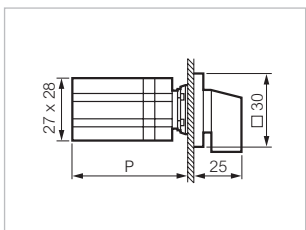
223522

30 aluminium plate and frame

1P -3 contacts
2P -6 contacts
3P -9 contacts



223521
223522
223523



Dimensions in mm

*P: 62 (3 CONTACTS)
74 (6 CONTACTS)
95 (9 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ND03AQ1

Grey/black small handle
□ 48 aluminium plate and frame

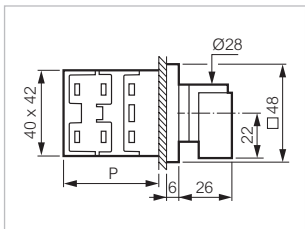
Designation

1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



PR12 2301 A4 E Q48PN
PR12 2302 A4 E Q48PN
PR12 2303 A4 E Q48PN

ND01AQ1
ND02AQ1
ND03AQ1



Dimensions in mm

*P: 46 (3 CONTACTS)
56 (6 CONTACTS)
76 (9 CONTACTS)

PR 12 - 16 A (AC21)

∅ 22 single hole front mounting

Cat. No.



ND02AX80

Grey/black small handle
□ 48 aluminium plate and frame

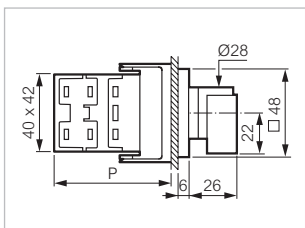
Designation

1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



PR12 2301 A4 E N48MD50
PR12 2302 A4 E N48MD50
PR12 2303 A4 E N48MD50

ND01AX80
ND02AX80
ND03AX80



Dimensions in mm

*P: 61 (3 CONTACTS)
71 (6 CONTACTS)
91 (9 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

▶ 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

∅ 22 single hole front mounting

Cat. No.



ND01AC113

With selector switch style handle
Matt chrome plastic bezel

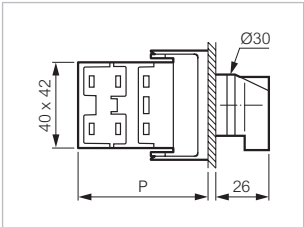
Designation

1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



PR12 2301 A4 E C21RA03
PR12 2302 A4 E C21RA03
PR12 2303 A4 E C21RA03

ND01AC113
ND02AC113
ND03AC113



Dimensions in mm

*P: 61 (3 CONTACTS)
71 (6 CONTACTS)
91 (9 CONTACTS)

PR 12 - 16 A (AC21)

Enclosure

Cat. No.



ND02AXQ

Black small handle
□ 64 aluminium plate and frame

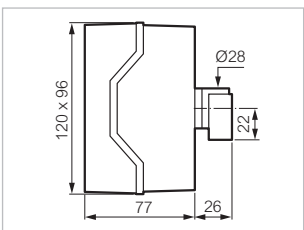
Designation

1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



PR12 2301 A4 BCQ3
PR12 2302 A4 BCQ3
PR12 2303 A4 BCQ3

ND01AXQ
ND02AXQ
ND03AXQ



Dimensions in mm

*P: 77 (3 TO 6 CONTACTS)
101 (9 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

▶ 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 17 - 20 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



SD03AQ1

Designation

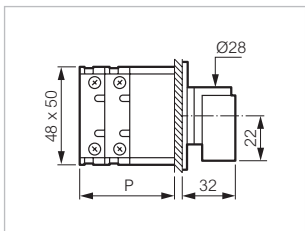
Grey/black small handle
 □ 48 aluminium plate and frame

1P - 3 contacts
 2P - 6 contacts
 3P - 9 contacts



PR17 2301 A4 E Q48PN
 PR17 2302 A4 E Q48PN
 PR17 2303 A4 E Q48PN

SD01AQ1
 SD02AQ1
 SD03AQ1



Dimensions in mm

*P: 45 (3 CONTACTS)
 57 (6 CONTACTS)
 81 (9 CONTACTS)

PR 17 - 20 A (AC21)

Enclosure

Cat. No.



SD02AXQ

Designation

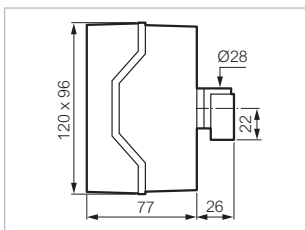
Black small handle
 □ 64 aluminium plate and frame

1P - 3 contacts
 2P - 6 contacts
 3P - 9 contacts



PR17 2301 A4 BCQ3
 PR17 2302 A4 BCQ3
 PR17 2303 A4 BCQ3

SD01AXQ
 SD02AXQ
 SD03AXQ



Dimensions in mm

*P: 77 (3 TO 6 CONTACTS)
 101 (9 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 21 - 25 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



TD02AQ1

Grey/black small handle
 □ 48 aluminium plate and frame

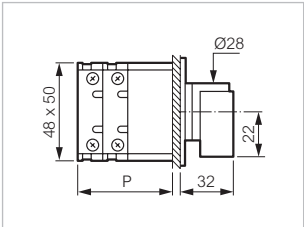
Designation

1P - 3 contacts
 2P - 6 contacts
 3P - 9 contacts



PR21 2301 A4 E Q48PN
 PR21 2302 A4 E Q48PN
 PR21 2303 A4 E Q48PN

TD01AQ1
 TD02AQ1
 TD03AQ1



Dimensions in mm

*P: 45 (3 CONTACTS)
 57 (6 CONTACTS)
 81 (9 CONTACTS)

PR 21 - 25 A (AC21)

Enclosure

Cat. No.



TD01AXQ

Black small handle
 □ 64 aluminium plate and frame

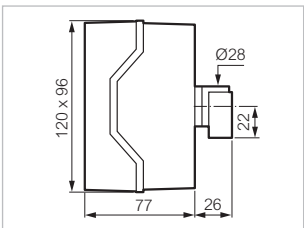
Designation

1P - 3 contacts
 2P - 6 contacts
 3P - 9 contacts



PR21 2301 A4 BCQ3
 PR21 2302 A4 BCQ3
 PR21 2303 A4 BCQ3

TD01AXQ
 TD02AXQ
 TD03AXQ



Dimensions in mm

*P: 77 (3 TO 6 CONTACTS)
 101 (9 CONTACTS)

*P = Depth

Cam switches

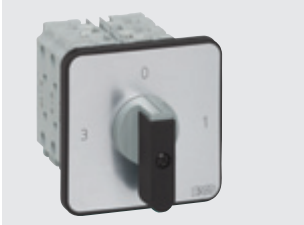
 Characteristics (p. 203)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 26 - 32 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ZD02AQ7

Grey/black medium handle
□ 72 aluminium plate and frame

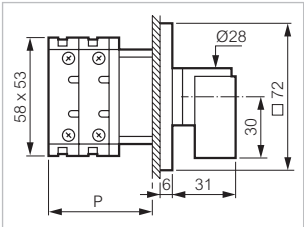
1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



Designation

PR26 2301 A4 E Q72MN
PR26 2302 A4 E Q72MN
PR26 2303 A4 E Q72MN

ZD01AQ7
ZD02AQ7
ZD03AQ7



Dimensions in mm

*P: 51 (3 CONTACTS)
66 (6 CONTACTS)
96 (9 CONTACTS)

PR 26 - 32 A (AC21)

Enclosure

Cat. No.



ZD01AXQ

Black small handle
□ 64 aluminium plate and frame

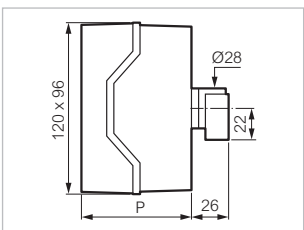
1P - 3 contacts
2P - 6 contacts



Designation

PR26 2301 A4 BCQ3
PR26 2302 A4 BCQ3

ZD01AXQ
ZD02AXQ



Dimensions in mm

*P: 77 (3 CONTACTS)
101 (6 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 40 - 50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HD02AQ7

Grey/black medium handle
□ 72 aluminium plate and frame

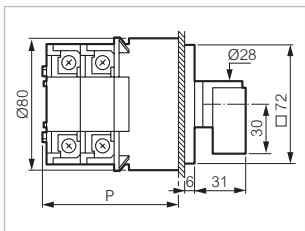
Designation

1P -3 contacts
2P - 6 contacts
3P - 9 contacts



PR40 2301 A4 E Q72MN
PR40 2302 A4 E Q72MN
PR40 2303 A4 E Q72MN

HD01AQ7
HD02AQ7
HD03AQ7



Dimensions in mm

*P: 80 (3 CONTACTS)
100 (6 CONTACTS)
140 (9 CONTACTS)

PR 40 - 50 A (AC21)

Enclosure

Cat. No.



HD01ABQ

Grey/black medium handle
□ 72 aluminium plate and frame

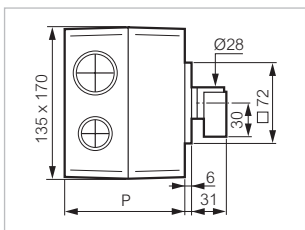
Designation

1P -3 contacts
2P - 6 contacts



PR40 2301 A4 BCF Q72MN
PR40 2302 A4 BCF Q72MN

HD01ABQ
HD02ACQ



Dimensions in mm

*P: 107 (3 CONTACTS)
145 (6 CONTACTS)

*P = Depth

Cam switches

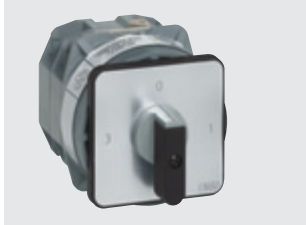
 Characteristics (p. 203)

▶ 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 63 - 63 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



ID01AQ7

Designation

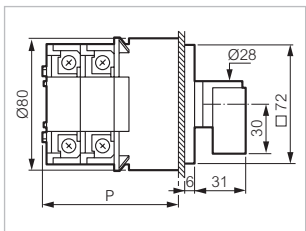
Grey/black medium handle
□ 72 aluminium plate and frame

1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



PR63 2301 A4 E Q72MN
PR63 2302 A4 E Q72MN
PR63 2303 A4 E Q72MN

ID01AQ7
ID02AQ7
ID03AQ7



Dimensions in mm

*P: 80 (3 CONTACTS)
100 (6 CONTACTS)
140 (9 CONTACTS)

PR 63 - 63 A (AC21)

Enclosure

Cat. No.



ID01ABQ

Designation

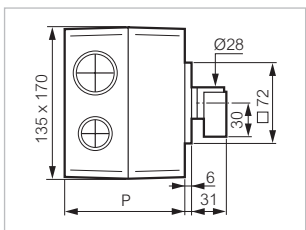
Grey/black medium handle
□ 72 aluminium plate and frame

1P - 3 contacts
2P - 6 contacts



PR63 2301 A4 BCF Q72MN
PR63 2302 A4 BCF Q72MN

ID01ABQ
ID02ACQ



Dimensions in mm

*P: 107 (3 CONTACTS)
145 (6 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 125 - 160 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



LD02AQ9

Grey/black large handle
 □ 96 aluminium plate and frame

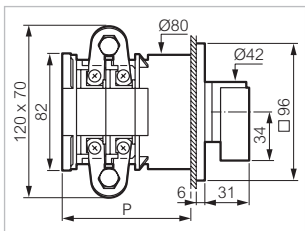
Designation

1P - 3 contacts
 2P - 6 contacts
 3P - 9 contacts



PR125 2301 A4 E Q96GN
 PR125 2302 A4 E Q96GN
 PR125 2303 A4 E Q96GN

LD01AQ9
 LD02AQ9
 LD03AQ9



Dimensions in mm

*P: 120 (3 CONTACTS)
 160 (6 CONTACTS)
 240 (9 CONTACTS)

PR 160 - 200 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



MD01AQ9

Grey/black large handle
 □ 96 aluminium plate and frame

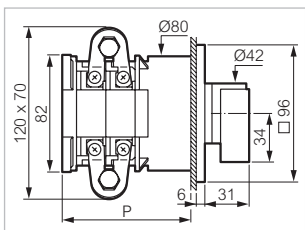
Designation

1P - 3 contacts
 2P - 6 contacts
 3P - 9 contacts



PR160 2301 A4 E Q96GN
 PR160 2302 A4 E Q96GN
 PR160 2303 A4 E Q96GN

MD01AQ9
 MD02AQ9
 MD03AQ9



Dimensions in mm

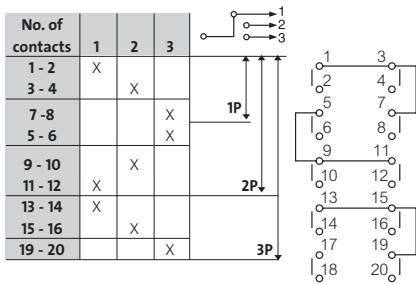
*P: 120 (3 CONTACTS)
 160 (6 CONTACTS)
 240 (9 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

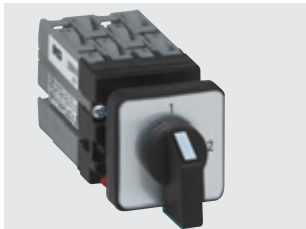
► 3-WAY CAM SWITCHES WITHOUT “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21)

∅ 16 or 22 single hole front mounting

Cat. No.



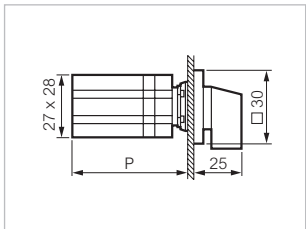
223516

30 aluminium plate and frame

1P -3 contacts
2P -6 contacts
3P -9 contacts



223515
223516
223517



Dimensions in mm

*P: 50 (3 CONTACTS)
74 (6 CONTACTS)
95 (9 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ND51EQ1

Designation

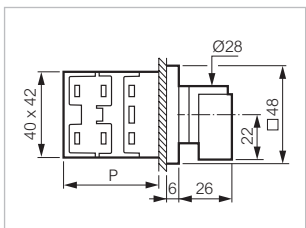
Grey/black small handle
 48 aluminium plate and frame

1P -3 contacts
2P -6 contacts
3P -9 contacts



PR12 2351 A8 E Q48PN
PR12 2352 A8 E Q48PN
PR12 2353 A8 E Q48PN

ND51EQ1
ND52EQ1
ND53EQ1



Dimensions in mm

*P: 46 (3 CONTACTS)
56 (6 CONTACTS)
76 (9 CONTACTS)

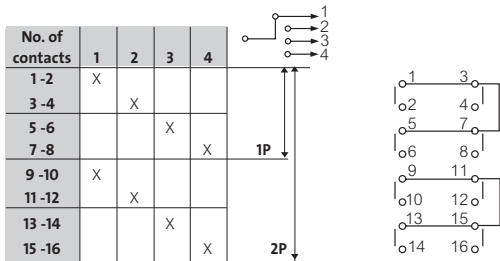
*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

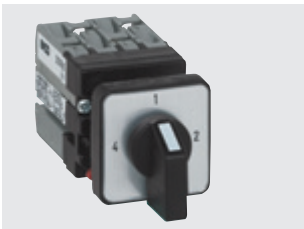
▶ 4-WAY CAM SWITCHES WITHOUT “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21)

Ø 16 or 22 single hole front mounting

Cat. No.



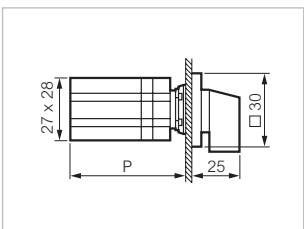
223525

30 aluminium plate and frame

1P -4 contacts
2P -8 contacts



223525
223526



Dimensions in mm

*P: 62 (4 CONTACTS)
86 (8 CONTACTS)

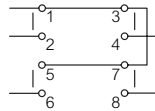
*P = Depth

Cam switches

 Characteristics (p. 203)

► CODING SWITCH WITH “OFF”

No. of contacts	Positions											
	0	1	2	3	4	5	6	7	8	9	10	11
1 - 2		X		X		X		X		X		X
3 - 4			X	X			X	X			X	X
5 - 6					X			X				
7 - 8									X			X



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NR51UQ1

Designation

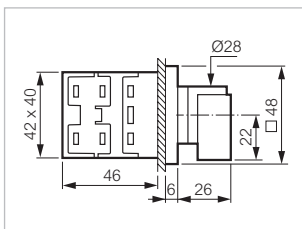
Grey/black small handle
□ 48 aluminium plate and frame

4 contacts



PR12 6501 A1 E Q48PN

NR51UQ1

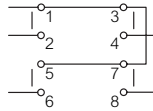


Cam switches

 Characteristics (p. 203)

► CODING SWITCH WITHOUT “OFF”

No. of contacts	Positions											
	1	2	3	4	5	6	7	8	9	10	11	12
1 - 2	X		X		X		X		X		X	
3 - 4		X	X			X	X			X	X	
5 - 6				X			X					
7 - 8								X				X



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NR52UQ1

Designation

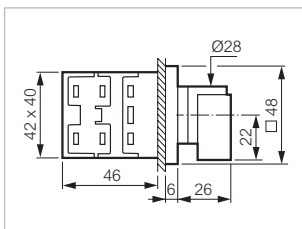
Grey/black small handle
□ 48 aluminium plate and frame

4 contacts



PR12 6502 A1 E Q48PN

NR52UQ1

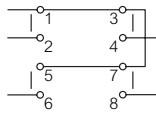


Cam switches

 Characteristics (p. 203)

► CODING SWITCH (COMPLEMENTARY BCD CODE, 0 TO 9)

No. of contacts	Positions									
	0	1	2	3	4	5	6	7	8	9
1 - 2		X		X		X		X		X
3 - 4			X	X			X	X		
5 - 6					X			X		
7 - 8									X	X



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NR53UQ1

Designation

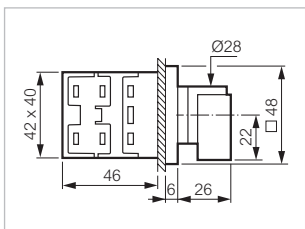
Grey/black small handle
 □ 48 aluminium plate and frame
 With complete rotation possible

4 contacts



PR12 6503 A1 E Q48PN

NR53UQ1

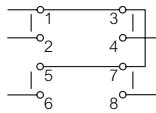


Cam switches

 Characteristics (p. 203)

► COMPLEMENTARY BCD CODE, 0 TO 9

No. of contacts	Positions									
	0	1	2	3	4	5	6	7	8	9
1 - 2	X		X		X		X		X	
3 - 4	X	X			X	X			X	X
5 - 6	X			X					X	X
7 - 8	X							X		



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NR54UQ1

Designation

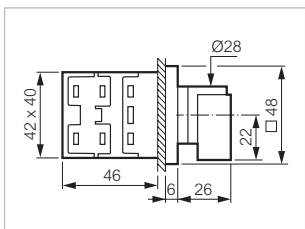
Grey/black small handle
 □ 48 aluminium plate and frame
 With complete rotation possible

4 contacts



PR12 6504 A1 E Q48PN

NR54UQ1

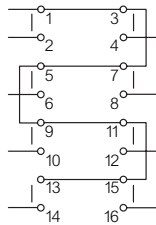


Cam switches

 Characteristics (p. 203)

► BCD CODE, 0 TO 9, + COMPLEMENTARY BCD CODE

No. of contacts	Positions									
	0	1	2	3	4	5	6	7	8	9
1 - 2		X		X		X		X		X
3 - 4			X	X			X	X		
5 - 6					X			X		
7 - 8									X	X
9 - 10	X		X		X		X			
11 - 12	X	X			X	X			X	X
13 - 14	X			X					X	X
15 - 16	X							X		



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NR55UQ1

Designation

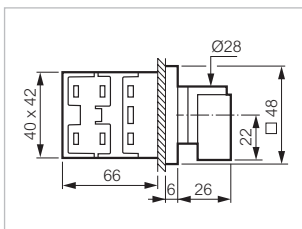
Grey/black small handle
 48 aluminium plate and frame
 With complete rotation possible

8 contacts



PR12 6505 A1 E Q48PN

NR55UQ1



Cam switches

 Characteristics (p. 203)

▶ ACCESSORIES

FIXING TOOL

Cat. No.



223520

For mini cam switches

223520

FIXING TOOL

Cat. No.



LWA0234

Fixing tool for PR 12 cam switches
 ø 22 single hole front mounting

LWA0234

Technical characteristics

▶ MINI CAM SWITCHES

Characteristics	Data
▶ Thermal current I _{th}	10 A
▶ Rated operating current I _e	
- in AC 21	10 A
- in AC 15	2.5 A
▶ Motor performance in AC-3	
- 3 x 230 V	1.8 kW
- 3 x 400 V	2.2 kW
▶ Motor performance in AC-23	
- 1 x 230 V	0.75 kW
- 1 x 400 V	1.1 kW
- 3 x 230 V	1.8 kW
- 3 x 400 V	3 kW
▶ Rated insulation voltage U _i (V)	500 V
▶ Rated operating current in DC-1 L/R < 1ms	
- 24 V DC	10 A
- 40 V DC	6 A
- 60 V DC	2.5 A
- 110 V DC	0.7 A
- 220 V DC	0.3 A
▶ Rated conditional short-circuit current	3 kA
▶ Max. fuse rating	10 A
▶ Degree of protection	IP 65 IP 2x at the rear of the panel
▶ Wire size (flexible and rigid)	2 x 1.5 mm ² max. 1 x 0.5 mm ² min.
▶ Operating temperature	- 20°C to + 50°C
▶ Standards	IEC/EN 60947-1 IEC/EN 60947-3 CSA 22.2 UL 508

▶ CAM SWITCHES

Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
▶ For thermal current I _{th} I _c (A)	20	25	32	40	63	63	200	250
▶ Rated operating current for AC-21 A I _e (A) (IEC 60 947-3) Switching of resistive loads including moderate overloads	16	20	25	32	50	63	160	200
▶ Rated operating current for AC-15 A I _e (A) at 230V AC (IEC 60 947-3) Control of electromagnetic loads	6	8	10	12	-	-	-	-

Technical characteristics

► SELECTOR SWITCHES

Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
► Performance in AC 23 (kW) (IEC 60 947-3) Switching of motors or other highly inductive loads								
- 3 x 230 V	4	5.5	7.5	11	15	18.5	-	-
- 3 x 400 V	7.5	11	11	11	22	25	-	-
- 3 x 500 V	5.5	11	11	11	25	25	-	-
- 3 x 690 V	4	10	10	11	18.5	22	-	-
► Performance in AC 3 (IEC 60 947-3) Control of squirrel-cage motors starting and switching off motors while running								
- In kW								
- 3 x 230 V	3	4	4	5.5	11	15	-	-
- 3 x 400 V	4	7.5	7.5	11	18.5	22	-	-
- 3 x 500 V	5.5	7.5	7.5	11	18.5	22	-	-
- 3 x 690 V	3	7.5	7.5	11	18.5	22	-	-
- In HP (for reference)								
- 3 x 230 V	4	5.5	5.5	7.5	15	20	-	-
- 3 x 400 V	5.5	10	10	15	25	30	-	-
- 3 x 500 V	7.5	10	10	15	25	30	-	-
- 3 x 690 V	4	10	10	15	25	30	-	-
► Rated insulation voltage Ui (V)	690	690	690	690	690	690	690	690
- Max. rated voltage Ue(v) IEC	690	690	690	690	690	690	690	690
- CSA (Canada)	600	600	600	600	600	600	600	600
- UL (USA)	600	600	600	600	600	600	600	600
► Rated short time withstand current Icw (A) for 1 sec	250	400	420	800	1000	1000	2000	2400
► Maximum wire size (mm²)								
- rigid	4	6/4 ⁽¹⁾	6/4 ⁽¹⁾	6	16	16	ø 8 screw for eyelet	
- flexible	2.5	4	4	6	16	16	ø 8 screw for eyelet	

(1): These values correspond to terminals with jumpers

► **Mechanical durability** 1,250,000 operations, maximum rate 150 operations per hour

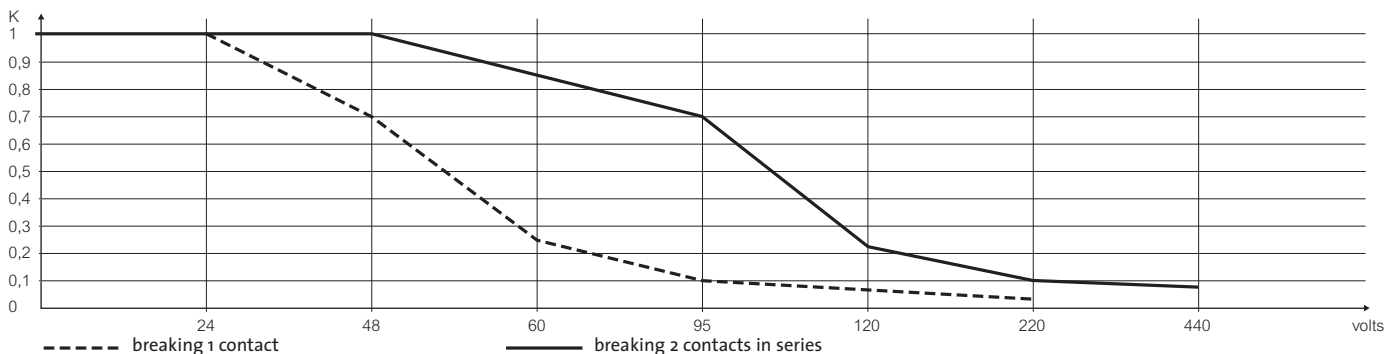
► **Operating temperature limits** - 20°C to + 70°C (beyond these limits consult us)

► **Rated operating current in DC-1 low inductive loads**

(< 1 ms)

Rated operating current Ie (A) 24 V DC 16 20 25 32 50 80 - -

Ie (A): rated current for breaking 1 contact. For higher voltages you must use a reduction coefficient K in the following graph



reduction coefficient K for rated operating current in DC-1 continuous current

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p.123)
Mini cam switches are only available in standard versions.

► I - CHOICE OF SWITCH SIZE

TECHNICAL CHARACTERISTICS

The choice of switch size depends on the type of load to be switched
Cam switches are devices designed mainly for use with AC current
When using with with DC current, you must use a reduction coefficient (see previous page)

PRICE LIST CODE

The price list code allows you (if necessary) to determine the price of the chosen switch by referring to the current price list

RATING	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
PRICE LIST CODE	N	S	T	Z	H	I	L	M

EXAMPLE

1 You are looking for a switch to control motors (3x230 V) with a power rating of 18.5 kW, what you need is a **PR 63**.

Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
► Performance in AC 23 (kW) (IEC 60 947-3) Switching of motors or other highly inductive loads								
- 3 x 230 V	4	5.5	7.5	11	15	18.5	-	-
- 3 x 400 V	7.5	11	11	11	22	25	-	-
- 3 x 500 V	5.5	11	11	11	25	25	-	-
- 3 x 690 V	4	10	10	11	18.5	22	-	-

2 For a PR 63 the price list code is: I

RATING	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
PRICE LIST CODE	N	S	T	Z	H	I	L	M

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p.123)
Mini cam switches are only available in standard versions.

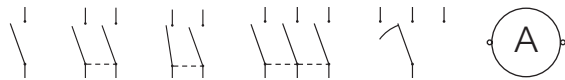
► II - CHOICE OF FUNCTION (DIAGRAM AND SWITCHING ANGLE)

FUNCTIONS

The electrical circuit diagram for separate switches can be:

- A standard diagram (see p. 207 to 238).

Examples:



- A special diagram to your own requirement (complete the form on p. 277)



EXAMPLE

- The reference of the diagram for a 1-2 contact switch (p. 208) is: **1101**, and its price list code is: **A01Z**

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions	No. of poles	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1 - 2	X	1	1	$\begin{matrix} 1^\circ \\ 2^\circ \end{matrix}$ $\begin{matrix} 3^\circ \\ 4^\circ \end{matrix}$	1101	A01Z
3 - 4	X	2	2	$\begin{matrix} 5^\circ \\ 6^\circ \end{matrix}$ $\begin{matrix} 7^\circ \\ 8^\circ \end{matrix}$	1102	A02Z
5 - 6	X	3	3	$\begin{matrix} 9^\circ \\ 10^\circ \end{matrix}$ $\begin{matrix} 11^\circ \\ 12^\circ \end{matrix}$	1103	A03Z
7 - 8	X	4	4		1104	A04Z
9 - 10	X	5	5		1105	A05Z
11 - 12	X	6	6		1106	A06Z

- For a switch, the reference of the 90° switching angle with spring return is: **AR10**, and the price list code is: **Y640**

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	90°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	M4	AR10*	VR11*

Spring return extra charge	Number of spring return contacts
* Y652 (PR12)	≤ 4 (PR12 → 25)
Y639 (PR17 → 26)	≤ 2 (PR40 → 63)
Y640 (PR40 → 63)	

- The full catalogue number for the function is **1101 - AR10**, and its price list code is **(I)A01Z - Y640**

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p.123)
Mini cam switches are only available in standard versions.













► II - CHOICE OF FUNCTION (DIAGRAM AND SWITCHING ANGLE)

FUNCTIONS	Diagram	Page
<p>► Switches From 1 to 24 poles, each pole being a path for the current, the circuit being open at starting position 0, and closed at position 1</p>		208
<p>► 2 way change-over switches without off position From 1 to 12 poles, each pole having 2 current paths, one path is closed at position 1, the other at position 2. Both paths can be open at position 0 and joined by a common point (link)</p>		209
<p>► 2 way change-over switches with off position From 1 to 12 poles, each pole having 2 current paths, one path is closed at position 1, the other at position 2 The two paths can be joined by a common point (link)</p>		210
<p>► 3 to 8-way cam switches Each pole having respectively 3 to 8 paths for the current, the number of poles multiplied by the number of ways must be 24 or less The starting position is either 0 (diagram with OFF) or 1 (diagram without OFF) The current paths of the same pole are connected together by links</p>		211
<p>► Grouping switches From 2 to 4 ways with or without starting position at 0, each pole having respectively 2 to 4 current paths which close consecutively and remain closed on the following positions, thus grouping 2 to 4 elements The current paths of the same pole are connected together by links</p>		223
<p>► Instrument switches For ammeters wired without a CT or with several CTs connected on the corresponding circuits The CTs can be mounted in series, with a common point or independently, they are always short-circuited when not feeding the ammeters</p>		226
<p>For voltmeters wired into 3-phase networks with or without neutral</p>		228
<p>► Motor control switches For 3-phase asynchronous motors with Y - t starting, with several speeds, with or without reversing</p>		229
<p>► Switches for coupling 2 or 3 resistors</p>		235
<p>► Coding switches Code BCD and additional BCD</p>		237














Separate cam switches

► SWITCHES

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions												No. of poles	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	1	-	-	-	-	-	-	-	-	-	-					
1 -2	X												1	1		1101	A01Z
3 -4	X												2	2		1102	A02Z
5 -6	X												3	3		1103	A03Z
7 -8	X												4	4		1104	A04Z
9 -10	X												5	5		1105	A05Z
11 -12	X												6	6		1106	A06Z
13 -14	X												7	7		1107	A07Z
15 -16	X												8	8		1108	A08Z
17 -18	X												9	9		1109	A09Z
19 -20	X												10	10		1110	A10Z
21 -22	X												11	11		1111	A11Z
23 -24	X												12	12		1112	A12Z
25 -26	X												13	13		1113	A13Z
27 -28	X												14	14		1114	A14Z
29 -30	X												15	15		1115	A15Z
31 -32	X												16	16		1116	A16Z
33 -34	X												17	17		1117	A17Z
35 -36	X												18	18		1118	A18Z
37 -38	X												19	19		1119	A19Z
39 -40	X												20	20		1120	A20Z
41 -42	X												21	21		1121	A21Z
43 -44	X												22	22		1122	A22Z
45 -46	X												23	23		1123	A23Z
47 -48	X												24	24		1124	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

	30°	45°	60°	90°	90°	Spring return	Spring return
							
Cat. No.	A1	A8	A6	A4	M4	AR10*	VR11*
							
Cat. No.	B1	B8	B6	B4			
							
Cat. No.		V8		D4			

Spring return extra charge * Y652 (PR12) Y639 (PR17 → 26) Y640 (PR40 → 63)	Number of spring return contacts ≤ 4 (PR12 → 26) ≤ 2 (PR40 → 63)
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Separate cam switches

► 2-WAY CHANGE-OVER SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions												No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	1	2															
1 - 2 3 - 4	X	X											1	2		2251	A02Z
5 - 6 7 - 8	X	X											2	4		2252	A04Z
9 - 10 11 - 12	X	X											3	6		2253	A06Z
13 - 14 15 - 16	X	X											4	8		2254	A08Z
17 - 18 19 - 20	X	X											5	10		2255	A10Z
21 - 22 23 - 24	X	X											6	12		2256	A12Z
25 - 26 27 - 28	X	X											7	14		2257	A14Z
29 - 30 31 - 32	X	X											8	16		2258	A16Z
33 - 34 35 - 36	X	X											9	18		2259	A18Z
37 - 38 39 - 40	X	X											10	20		2260	A20Z
41 - 42 43 - 44	X	X											11	22		2261	A22Z
45 - 46 47 - 48	X	X											12	24		2262	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

	30°	45°	60°	90°	90°	Spring return	Spring return
Cat. No.	A1	A8	A6	A4	D4	AR10*	VR11*
Cat. No.	B1	B8	B6	B4			
Cat. No.	V8			M4			

Spring return extra charge	Number of spring return contacts
* Y652 (PR12)	≤ 4 (PR12 → 26)
Y639 (PR17 → 26)	≤ 2 (PR40 → 63)
Y640 (PR40 → 63)	

Separate cam switches

► 2-WAY CHANGE-OVER SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions												No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code	
	0	1	2	-	-	-	-	-	-	-	-	-						
1 - 2 3 - 4	X													1	2		2201	A02Z
5 - 6 7 - 8	X	X												2	4		2202	A04Z
9 - 10 11 - 12	X	X												3	6		2203	A06Z
13 - 14 15 - 16	X	X												4	8		2204	A08Z
17 - 18 19 - 20	X	X												5	10		2205	A10Z
21 - 22 23 - 24	X	X												6	12		2206	A12Z
25 - 26 27 - 28	X	X												7	14		2207	A14Z
29 - 30 31 - 32	X	X												8	16		2208	A16Z
33 - 34 35 - 36	X	X												9	18		2209	A18Z
37 - 38 39 - 40	X	X												10	20		2210	A20Z
41 - 42 43 - 44	X	X												11	22		2211	A22Z
45 - 46 47 - 48	X	X												12	24		2212	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

	30°	45°	60°	90°	Misc	Spring return	Spring return	Spring return	Spring return	Spring return
Cat. No. A1	A8	A6	A4	J4	AR23*	AR25*	AR32*	BR19*	CR12*	
Cat. No. B1	B8	B6	B4	M6	CR13*	CR14*	CR19*			
Cat. No. C1	C8	C6	C4	V8	CR20*	VR12*	VR13*			

Spring return extra charge	Number of spring return contacts
* Y652 (PR12)	≤ 4 (PR12 → 26)
Y639 (PR17 → 26)	≤ 2 (PR40 → 63)
Y640 (PR40 → 63)	

Separate cam switches

► 3-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	1	2	3	-	-	-	-	-	-	-					
1-2 3-4 7-8	X										1	3		2351	A03Z
5-6 9-10 11-12		X									2	6		2352	A06Z
13-14 15-16 19-20	X										3	9		2353	A09Z
17-18 21-22 23-24		X									4	12		2354	A12Z
25-26 27-28 31-32	X										5	15		2355	A15Z
29-30 33-34 35-36		X									6	18		2356	A18Z
37-38 39-40 43-44	X										7	21		2357	A21Z
41-42 45-46 47-48		X									8	24		2358	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

	30°	45°	60°	90°	60°	Spring return	Spring return	Spring return
Cat. No. A1	A8	A6	A4	M6	AR23*	AR25*		
Cat. No. B1	B8	B6	B4		BR19*			
Cat. No. C1	C8	C6			CR12*	CR13*	CR14*	

Spring return extra charge * Y652 (PR12) Y639 (PR17 → 26) Y640 (PR40 → 63)	Number of spring return contacts ≤ 4 (PR12 → 26) ≥ 2 (PR40 → 63)
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Separate cam switches

► 3-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	0	1	2	3	-	-	-	-	-	-					
1-2 3-4 7-8	X										1	3		2301	A03Z
5-6 9-10 11-12		X									2	6		2302	A06Z
13-14 15-16 19-20	X										3	9		2303	A09Z
17-18 21-22 23-24		X									4	12		2304	A12Z
25-26 27-28 31-32	X										5	15		2305	A15Z
29-30 33-34 35-36		X									6	18		2306	A18Z
37-38 39-40 43-44	X										7	21		2307	A21Z
41-42 45-46 47-48		X									8	24		2308	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

	30°	45°	60°	90°	45°	Spring return	Spring return
Cat. No.	A1	A8	A6	A4	V8	BR15*	VR16*
Cat. No.	B1	B8	B6	B4			
Cat. No.	M8	J6					

Spring return extra charge	Number of spring return contacts
* Y652 (PR12)	4 (PR12 → 26)
Y639 (PR17 → 26)	2 (PR40 → 63)
Y640 (PR40 → 63)	

Separate cam switches

► 4-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions											No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	1	2	3	4	-	-	-	-	-	-	-					
1 -2 3 -4 5 -6 7 -8	X											1	4		2451	Ao4Z
9 -10 11 -12 13 -14 15 -16	X											2	8		2452	Ao8Z
17 -18 19 -20 21 -22 23 -24	X											3	12		2453	A12Z
25 -26 27 -28 29 -30 31 -32	X											4	16		2454	A16Z
33 -34 35 -36 37 -38 39 -40	X											5	20		2455	A20Z
41 -42 43 -44 45 -46 47 -48	X											6	24		2456	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

	30°	45°	60°	90°	45°	Spring return	Spring return
Cat. No.	A1	A8	A6	A4	V8	AR30*	
Cat. No.	B1	B8	B6	B4		BR15*	BR41*
Cat. No.	V1	M8				VR16*	VR28*

Spring return extra charge	Number of spring return contacts
* Y652 (PR12)	4 (PR12 → 26)
Y639 (PR17 → 26)	2 (PR40 → 63)
Y640 (PR40 → 63)	

Separate cam switches

► 4-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code	
	0	1	2	3	4	-	-	-	-	-						
1-2 3-4 5-6 7-8	X											1	4		2401	Ao4Z
9-10 11-12 13-14 15-16	X											2	8		2402	Ao8Z
17-18 19-20 21-22 23-24	X											3	12		2403	A12Z
25-26 27-28 29-30 31-32	X											4	16		2404	A16Z
33-34 35-36 37-38 39-40	X											5	20		2405	A20Z
41-42 43-44 45-46 47-48	X											6	24		2406	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

	30°	45°	60°	45°	Spring return	Spring return	Spring return
Cat. No.	A1	A8	A6	J8	AR38*		
Cat. No.	B1	B8	B6				
Cat. No.	C1	C8	C6	CR27*	CR34*	CR40*	

Spring return extra charge * Y652 (PR12) Y639 (PR17 → 26) Y640 (PR40 → 63)	Number of spring return contacts max 4 (PR12 → 26) min 2 (PR40 → 63)
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Separate cam switches

► 5-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	1	2	3	4	5	-	-	-	-	-					
1-2 3-4 5-6 7-8 9-10	X										1	5		2551	A05Z
11-12 13-14 15-16 17-18 19-20	X										2	10		2552	A10Z
21-22 23-24 25-26 27-28 29-30	X										3	15		2553	A15Z
31-32 33-34 35-36 37-38 39-40	X										4	20		2554	A20Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

	30°	45°	60°	Spring return
Cat. No.	A1	A8	A6	
Cat. No.	B1	B8	B6	BR27*
Cat. No.	V8			

Spring return extra charge	Number of spring return contacts
* Y652 (PR12)	4 (PR12 → 26)
Y639 (PR17 → 26)	2 (PR40 → 63)
Y640 (PR40 → 63)	

Separate cam switches

► 5-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code	
	0	1	2	3	4	5	-	-	-	-						
1-2 3-4 5-6 7-8 9-10	X											1	5		2501	A05Z
11-12 13-14 15-16 17-18 19-20	X											2	10		2502	A10Z
21-22 23-24 25-26 27-28 29-30	X											3	15		2503	A15Z
31-32 33-34 35-36 37-38 39-40	X											4	20		2504	A20Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

	30°	45°	60°
Cat. No.	A1	A8	A6
Cat. No.	B1	B8	B6
Cat. No.	M1	V6	

Separate cam switches

► 6-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions						No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	1	2	3	4	5	6					
1-2 3-4 5-6 7-8 9-10 11-12	X						1	6		2651	Ao6Z
13-14 15-16 17-18 19-20 21-22 23-24	X						2	12		2652	A12Z
25-26 27-28 29-30 31-32 33-34 35-36	X						3	18		2653	A18Z
37-38 39-40 41-42 43-44 45-46 47-48	X						4	24		2654	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

	30°	45°	60°
Cat. No.	A1	A8	A6
Cat. No.	B1	B8	B6
Cat. No.	M1		

Separate cam switches

► 6-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions											No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code			
	0	1	2	3	4	5	6	-	-	-	-								
1 -2 3 -4 5 -6 7 -8 9 -10 11 -12	X																	2601	A06Z
13 -14 15 -16 17 -18 19 -20 21 -22 23 -24	X																	2602	A12Z
25 -26 27 -28 29 -30 31 -32 33 -34 35 -36	X																	2603	A18Z
37 -38 39 -40 41 -42 43 -44 45 -46 47 -48	X																	2604	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

	30°	45°
Cat. No.	A1	A8
Cat. No.	B1	B8
Cat. No.	J1	C8

Separate cam switches

► 7-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions							No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	1	2	3	4	5	6	7					
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 15 - 16	X										2751	A07Z
13 - 14 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28						X					2752	A14Z
29 - 30 31 - 32 33 - 34 35 - 36 37 - 38 39 - 40 43 - 44	X										2753	A21Z
41 - 42 45 - 46 47 - 48												

For diagrams without a link, replace the number 2 at the beginning of the reference for diagrams with a link by the number 1.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°
Cat. No. A1	A8
Cat. No. B1	B8
Cat. No.	C8

Separate cam switches

► 7-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions							No. of poles	No. of contacts	Connection terminals +* links	Diagram* reference	Diagram price list code	
	0	1	2	3	4	5	6						7
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 15 - 16	X								1	7		2701	A07Z
13 - 14 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28							X		2	14		2702	A14Z
29 - 30 31 - 32 33 - 34 35 - 36 37 - 38 39 - 40 43 - 44	X								3	21		2703	A21Z
41 - 42 45 - 46 47 - 48													

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°

45°



Cat. No. A1

A8



Cat. No. B1

B8

Separate cam switches

► 8-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions								No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code	
	1	2	3	4	5	6	7	8						
1 -2 3 -4 5 -6 7 -8 9 -10 11 -12 13 -14 15 -16	X									1	8		2851	Ao8Z
17 -18 19 -20 21 -22 23 -24 25 -26 27 -28 29 -30 31 -32	X	X								2	16		2852	A16Z
33 -34 35 -36 37 -38 39 -40 41 -42 43 -44 45 -46 47 - 48	X	X	X							3	24		2853	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

	30°	45°
Cat. No.	A1	A8
Cat. No.	B1	B8

For more than 8 ways, please contact us.

Separate cam switches

► GROUPING SWITCHES FOR 2 ELEMENTS

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions												No. of poles	No. of contacts	Connection terminals + links	Diagram reference		Diagram price list code		
	0	1	2	-	-	-	-	-	-	-	-	-				with off	without off			
1 - 2 3 - 4	X	X													1	2		5201	5251	A02Z
5 - 6 7 - 8	X	X													2	4		5202	5252	A04Z
9 - 10 11 - 12	X	X													3	6		5203	5253	A06Z
13 - 14 15 - 16	X	X													4	8		5204	5254	A08Z
17 - 18 19 - 20	X	X													5	10		5205	5255	A10Z
21 - 22 23 - 24	X	X													6	12		5206	5256	A12Z
25 - 26 27 - 28	X	X													7	14		5207	5257	A14Z
29 - 30 31 - 32	X	X													8	16		5208	5258	A16Z
33 - 34 35 - 36	X	X													9	18		5209	5259	A18Z
37 - 38 39 - 40	X	X													10	20		5210	5260	A20Z
41 - 42 43 - 44	X	X													11	22		5211	5261	A22Z
45 - 46 47 - 48	X	X													12	24		5212	5262	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

Diagram with off position

Diagram without off position

Diagram with off position				Diagram without off position			
30°	45°	60°	90°	30°	45°	60°	90°
Cat. No. A1	A8	A6	A4	A1	A8	A6	A4
Cat. No. B1	B8	B6	B4	B1	B8	B6	B4
Cat. No. V8	M6						

Separate cam switches

► GROUPING SWITCHES FOR 3 ELEMENTS

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals + links	Diagram reference		Diagram price list code
	0	1	2	3	-	-	-	-	-	-				with off	without off	
1-2 3-4 7-8	X	X									1	3		5301	5351	A03Z
5-6 9-10 11-12		X	X								2	6		5302	5352	A06Z
13-14 15-16 17-18	X	X									3	9		5303	5353	A09Z
19-20 21-22 23-24		X	X								4	12		5304	5354	A12Z
25-26 27-28 29-30	X	X									5	15		5305	5355	A15Z
31-32 33-34 35-36		X	X								6	18		5306	5356	A18Z
37-38 39-40 41-42	X	X									7	21		5307	5357	A21Z
43-44 45-46 47-48		X	X								8	24		5308	5358	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

Diagram with off position

Diagram without off position

Diagram with off position				Diagram without off position			
30°	45°	60°	90°	30°	45°	60°	90°
Cat. No. A1	A8	A6	A4	A1	A8	A6	A4
Cat. No. B1	B8	B6	B4	B1	B8	B6	B4
Cat. No. V8 (45°)	M8			V8	M6		

Separate cam switches

► GROUPING SWITCHES FOR 4 ELEMENTS

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions											No. of poles	No. of contacts	Connection terminals + links	Diagram reference		Diagram price list code				
	0	1	2	3	4	-	-	-	-	-	-				with off	without off					
1-2 3-4 5-6 7-8	X			X												1	4		5401	5451	A04Z
9-10 11-12 13-14 15-16	X			X												2	8		5402	5452	A08Z
17-18 19-20 21-22 23-24	X			X												3	12		5403	5453	A12Z
25-26 27-28 29-30 31-32	X			X												4	16		5404	5454	A16Z
33-34 35-36 37-38 39-40	X			X												5	20		5405	5455	A20Z
41-42 43-44 45-46 47-48	X			X												6	24		5406	5456	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

Diagram with off position

Diagram without off position

30°			45°			60°			30°				45°				60°				90°			
Cat. No.	A1	A8	A6	A1	A8	A6	A4	A1	A8	A6	A4	B1	B8	B6	B1	B8	B6	B4	B1	B8	B6	B4		

For more than 4 elements, please contact us.

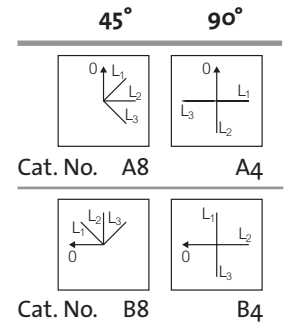
Separate cam switches

► INSTRUMENT SWITCHES: AMMETER

MEASUREMENT ON 3 CIRCUITS L_1 - L_2 - L_3 WITH 1 AMMETER AND 3 CTS WITH COMMON POINT

SWITCHING ANGLE

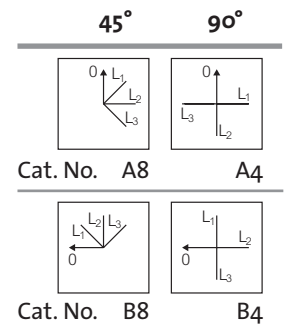
Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	1	2	3	-	-				
1-2	X	X					6		8151	Ao6Z
3-4	X	X								
5-6		X	X							
7-8		X	X							
9-10		X	X							
11-12		X	X							



MEASUREMENT ON 3 CIRCUITS L_1 - L_2 - L_3 WITH 1 AMMETER AND 3 CTS WITHOUT COMMON POINT

SWITCHING ANGLE

Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	1	2	3	-	-				
1-2	X	X					9		8157	Ao9Z
3-4	X	X								
5-6	X	X								
7-8		X	X							
9-10		X	X							
11-12		X	X							
13-14		X	X							
15-16		X								
19-20	X	X								
			X	X						



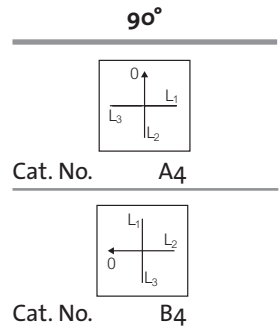
Separate cam switches

► INSTRUMENT SWITCHES: AMMETER (CONTINUED)

MEASUREMENT ON 3 CIRCUITS L₁-L₂-L₃ WITH 1 AMMETER, DIRECT READING WITHOUT CT

SWITCHING ANGLE

Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	1	2	3	-	-				
1-2	X	X					9		8164	A09Z
3-4	X	X								
5-6	X	X								
7-8		X	X							
9-10		X	X							
11-12		X	X							
13-14			X	X						
15-16			X	X						
17-18			X	X						



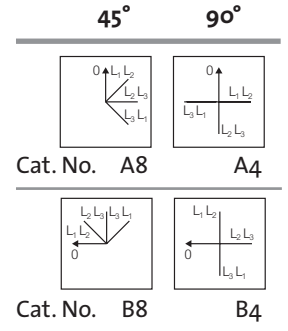
Separate cam switches

► INSTRUMENT SWITCHES: VOLTMETER

MEASUREMENT ON 3-PHASE CIRCUIT WITH 1 VOLTMETER, READING BETWEEN PHASES

SWITCHING ANGLE

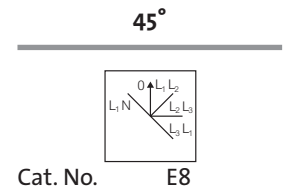
Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	L ₁	L ₂	L ₃	-	-				
1-2 3-4 5-6 7-8	X	X	X				4		8351	A04Z



MEASUREMENT ON 3-PHASE CIRCUIT WITH 1 VOLTMETER, READING BETWEEN PHASES + BETWEEN 1 PHASE AND NEUTRAL

SWITCHING ANGLE

Contact Nos.	Positions							No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	L ₁	L ₂	L ₃	-	-	L ₁				
1-2 3-4 5-6 7-8 9-10	X	X	X				X	5		8356	A05Z

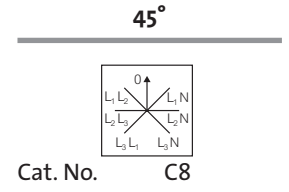


Separate cam switches

► INSTRUMENT SWITCHES: VOLTMETER (CONTINUED)

MEASUREMENT ON 3-PHASE CIRCUIT WITH 1 VOLTMETER, READING BETWEEN PHASES AND BETWEEN PHASES AND NEUTRAL SWITCHING ANGLE

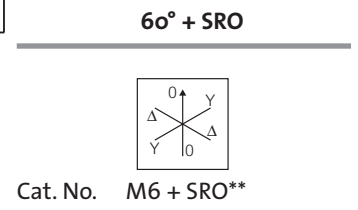
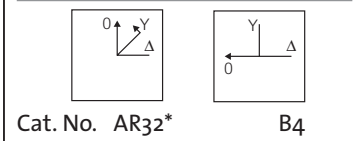
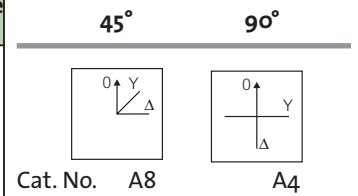
Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	L ₁ N	L ₂ N	L ₃ N	-	L ₃ L ₁				
1-2	X					X	6		8357	Ao6Z
3-4	X	X	X			X				
5-6	X	X				X				
7-8						X				
9-10			X			X				
11-12					X	X				



► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR

Y Δ STARTER, ONE WAY, FOR SINGLE SPEED MOTOR SWITCHING ANGLE

Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	Y	Δ	-	-	-				
1-2	X	X					8		9551	Ao8Z
3-4		X								
5-6	X	X								
7-8	X	X								
9-10		X								
11-12		X								
13-14	X	X								
15-16	X	X								



* Y652, PR12
Y639, PR17 → 26
Y640, PR40 → 160

** Y649, PR12
Y642, PR17 → 26
Y643, PR40 → 160

Separate cam switches

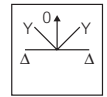
▶ 3-PHASE, 1-SPEED MOTOR CONTROL SWITCHES (CONTINUED)

1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR

SWITCHING ANGLE

Contact Nos.	FWD Positions	REV	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	o Y Δ - - - Δ Y					
1-2	X X		10		9153	A10Z
3-4		X X				
5-6		X X				
7-8	X X					
9-10	X X	X				
11-12	X	X				
13-14	X	X				
15-16	X	X				
17-18	X	X				
19-20	X X	X X				

45°



Cat. No. C8

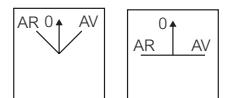
3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED

SWITCHING ANGLE

Contact Nos.	Positions	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	o FWD - - - - REV				
1-2		5		9151	A05Z
3-4	X				
5-6	X				
7-8					
9-10	X				

45°

90°



Cat. No. C8 C4

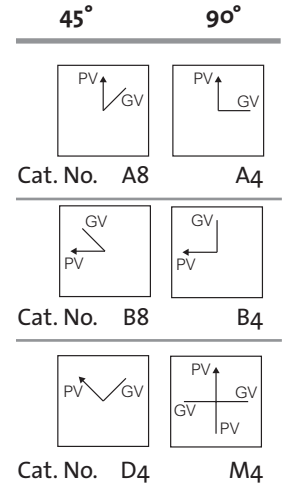
Separate cam switches

▶ 3-PHASE, 2-SPEED MOTOR CONTROL SWITCHES

2 SPEEDS, 1 WAY WITHOUT OFF - 3 PHASE DALHANDER MOTOR (not suitable as starter)

* SWITCHING ANGLE

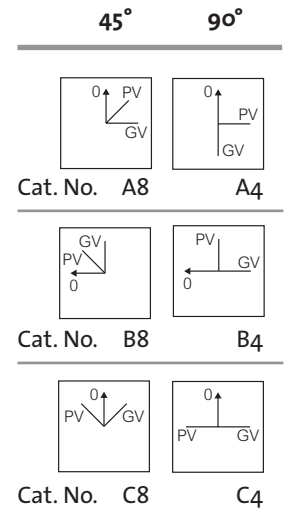
Contact Nos.	Positions							No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	Δ	YY	-	-	-	-	-				
1-2	X							8		9354	Ao8Z
3-4		X									
5-6		X									
7-8	X										
9-10		X									
11-12		X									
13-14	X										
15-16		X									



2 SPEEDS, 1 WAY WITH OFF - 3 PHASE DALHANDER MOTOR

* SWITCHING ANGLE

Contact Nos.	Positions							No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	o	Δ	YY	-	-	-	-				
1-2		X						8		9552	Ao8Z
3-4			X								
5-6			X								
7-8		X									
9-10			X								
11-12			X								
13-14	X										
15-16			X								



* PV = LS
GV = HS

Separate cam switches

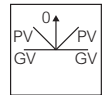
▶ 3-PHASE, 2-SPEED MOTOR CONTROL SWITCHES (CONTINUED)

2 SPEEDS, FORWARD/REVERSE - 3 PHASE DALHANDER MOTOR

* SWITCHING ANGLE

Contact Nos.	FWD Positions						REV	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code		
	0	Δ	Y	-	-	-						Y	Δ
1-2	X	X						12		9154	A12Z		
3-4							X					X	
5-6							X					X	
7-8	X	X											
9-10		X					X					X	
11-12		X					X					X	
13-14	X											X	X
15-16	X											X	X
17-18		X					X					X	
19-20		X					X					X	
21-22		X					X					X	
23-24	X											X	

45°



Cat. No. C8

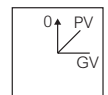
STARTER, 2 SPEEDS, 1 WAY - 2 COILS ΔA, ΔB OPEN

* SWITCHING ANGLE

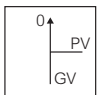
Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	LS	HS	-	-	-				
1-2	X						8		9553	Ao8Z
3-4		X								
5-6	X									
7-8		X								
9-10	X									
11-12		X								
13-14	X									
15-16		X								

45°

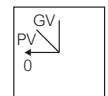
90°



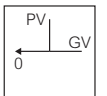
Cat. No. A8



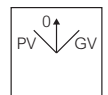
Cat. No. A4



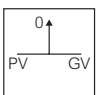
Cat. No. B8



Cat. No. B4



Cat. No. C8



Cat. No. C4

* PV = LS
GV = HS

Separate cam switches

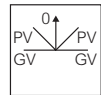
▶ 3-PHASE, 2-SPEED MOTOR CONTROL SWITCHES (CONTINUED)

STARTER, FORWARD/REVERSE, FOR 2 SPEED MOTOR, 2 COILS ΔA, ΔB OPEN

* SWITCHING ANGLE

Contact Nos.	FWD Positions			REV			No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	O	LS	HS	-	-	HS				
1-2	X	X					12		9156	A12Z
3-4				X	X					
5-6				X	X					
7-8	X	X								
9-10	X					X				
11-12	X					X				
13-14		X		X	X					
15-16		X		X	X					
17-18	X					X				
19-20		X		X	X					
21-22	X					X				
23-24		X				X				

45°



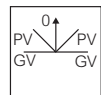
Cat. No. C8

STARTER, FORWARD/REVERSE, FOR 2 SPEED MOTOR, 2 COILS YA, YB OPEN

* SWITCHING ANGLE

Contact Nos.	FWD Positions			REV			No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	O	LS	HS	-	-	HS				
1-2	X	X					10		9163	A10Z
3-4				X	X					
5-6				X	X					
7-8	X	X								
9-10	X					X				
11-12	X					X				
13-14		X		X	X					
15-16		X		X	X					
17-18	X					X				
19-20		X		X	X					

45°



Cat. No. C8

For function 1 way, see page 210, ref. diagram 2203, diagram price list code Ao6Z

* PV = LS
GV = HS

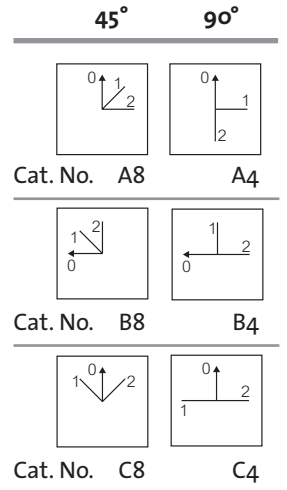
Separate cam switches

► MOTOR CONTROL SWITCHES - D.C. CURRENT OR SINGLE PHASE

POLARITY OR PHASE CHANGE-OVER WITH OFF POSITION (D.C. current)

SWITCHING ANGLE

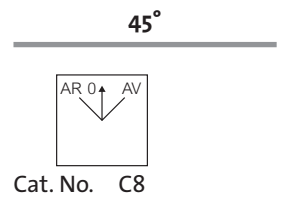
Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	1	2	-	-	-				
1-2	X							9051	Ao4Z	
3-4		X								
5-6			X							
7-8				X						



FORWARD/REVERSE SWITCH WITH OFF POSITION FOR 1-SPEED SINGLE PHASE MOTOR WITH PERMANENT CONDENSER (4 WIRES)

SWITCHING ANGLE

Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	FWD	-	-	-	REV				
1-2	X					X		9057C8	Ao6Z	
3-4		X				X				
5-6			X			X				
7-8				X		X				
9-10					X	X				
11-12		X				X				



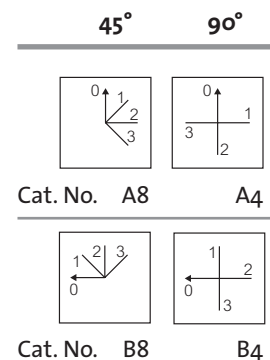
Separate cam switches

SWITCHES FOR COUPLING 2 RESISTORS

COUPLING OF 2 RESISTORS WITH COMMON POINT, 2-POLE SWITCHING

SWITCHING ANGLE

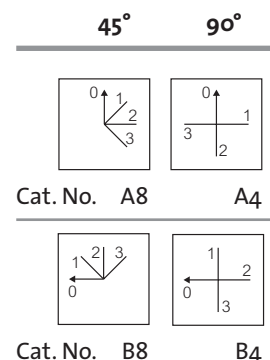
Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	1	2	3	-	-				
1-2	X	X						7202	Ao4Z	
3-4			X							
5-6		X	X							
7-8	X									
Pos. a b 0 off off 1 R ₁ R ₁ +R ₂ series 2 R ₂ R ₂ 3 R ₁ +R ₂ series R ₁										



COUPLING OF 2 RESISTORS WITH COMMON POINT, 2-POLE SWITCHING

SWITCHING ANGLE

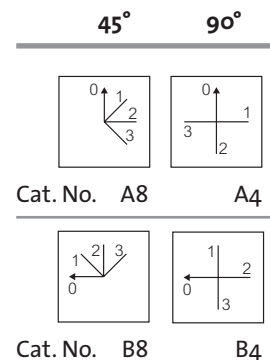
Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	1	2	3	-	-				
1-2	X	X	X					7204	Ao4Z	
3-4			X							
5-6		X	X							
7-8	X									
Pos. a b 0 off off 1 R ₁ +R ₂ series R ₁ 2 R ₁ R ₁ +R ₂ series 3 R ₁ +R ₂ // R ₂										



FUNCTION: COUPLING OF 2 RESISTORS WITHOUT COMMON POINT, 2-POLE SWITCHING

SWITCHING ANGLE

Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	1	2	3	-	-				
1-2	X		X					7207	Ao4Z	
3-4		X	X							
5-6	X		X							
7-8		X	X							
Pos. Function 0 off 1 R ₁ 2 R ₂ 3 R ₁ +R ₂ //										



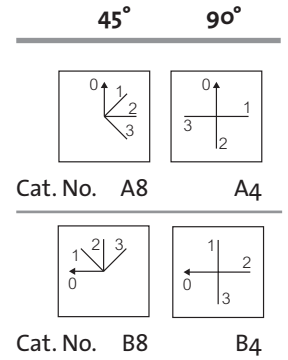
Separate cam switches

► SWITCHES FOR COUPLING 3 RESISTORS

COUPLING OF 3 RESISTORS WITHOUT COMMON POINT, 2-POLE SWITCHING

SWITCHING ANGLE

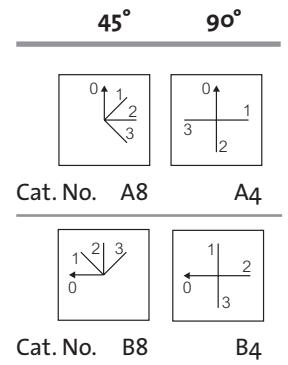
Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	o	1	2	3	-	-				
1-2	X	X	X				<p>Pos. Function</p> <ul style="list-style-type: none"> o off 1 R₁ 2 R₁+R₂ // 3 R₁+R₂+R₃ // 	7211	Ao6Z	
3-4		X	X							
5-6		X	X							
7-8	X	X	X							
9-10		X	X							
11-12			X							



COUPLING OF 3 RESISTORS, 3-PHASE NETWORK, TOTAL CUT-OFF AT OFF

SWITCHING ANGLE

Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	o	1	2	3	-	-				
1-2	X	X	X				<p>Pos. Function</p> <ul style="list-style-type: none"> o off 1 R₁ (L₁/L₂) 2 R₁ (L₁/L₂), R₂ (L₂/L₃) 3 R₁, R₂, R₃ in ? 	7607	Ao4Z	
3-4		X	X							
5-6	X	X	X							
7-8		X	X							



Separate cam switches

► CODING SWITCHES

CODING SWITCH WITH OFF

SWITCHING ANGLE

Contact Nos.	Positions											No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code	
	0	1	2	3	4	5	6	7	8	9	10					11
1-2	X		X		X		X		X		X		4		6501	Ao4Z
3-4		X	X			X	X			X	X					
5-6				X	X											
7-8								X	X							

30°



Cat. No. A1

CODING SWITCH WITHOUT OFF

SWITCHING ANGLE

Contact Nos.	Positions												No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	1	2	3	4	5	6	7	8	9	10	11	12				
1-2	X		X		X		X		X		X		4		6502	Ao4Z
3-4		X	X			X	X			X	X					
5-6				X	X						X					
7-8								X	X							

30°



Cat. No. A1

CODING SWITCH, BCD CODE, 0 TO 9 (with complete rotation possible)

SWITCHING ANGLE

Contact Nos.	Positions										No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	1	2	3	4	5	6	7	8	9				
1-2	X		X		X		X		X		4		6503	Ao4Z
3-4		X	X			X	X							
5-6				X	X									
7-8								X	X					

30°



Cat. No. A1

Separate cam switches

► CODING SWITCHES (CONTINUED)

COMPLEMENTARY BCD CODE, 0 TO 9 (with complete rotation possible)

SWITCHING ANGLE

Contact Nos.	Positions										No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code	
	0	1	2	3	4	5	6	7	8	9					-
1 - 2	X		X		X		X		X			4		6504	Ao4Z
3 - 4	X	X			X	X			X	X					
5 - 6	X		X						X	X					
7 - 8	X						X								

30°



Cat. No. A1

BCD CODE, 0 TO 9 + COMPLEMENTARY BCD CODE (with complete rotation possible)

SWITCHING ANGLE

Contact Nos.	Positions										No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code	
	0	1	2	3	4	5	6	7	8	9					-
1 - 2	X		X		X		X		X			8		6505	Ao8Z
3 - 4		X	X			X	X								
5 - 6				X	X										
7 - 8									X	X					
9 - 10	X		X		X		X		X						
11 - 12	X	X			X	X			X	X					
13 - 14	X		X						X	X					
15 - 16	X						X								

30°







Cat. No. A1

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 122)
Mini-switches are only available in standard formats.

► III - CHOICE OF MOUNTING

	Image	Page
► 2-screw panel mount Intervals 30 or 50 Intervals 35 or 36, 48, 54, 68		240 240 240
► Single hole mounting Ø 22 With plate frame and handle With key with selector switch		241 241 241 242
► Single hole mounting Ø 30 One-piece with handle One-piece with key		243 243 243
► Rear mounting Intervals 48 or 68 On DIN rail		244 244 244
► Dimensions		245
Front and rear mounting (E and S)		245
Front mounting (EZ)		247
Single hole mounting Ø 22 (E N48MD50)		249
Single hole mounting Ø 22 (E C21XXXX)		249
Single hole mounting Ø 30 (E 30PN)		250
Single hole mounting Ø 30 (E 30C)		251
Rear mounting on DIN rail (SX)		252

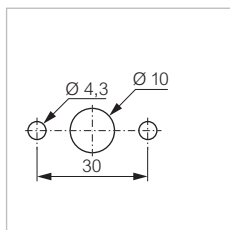
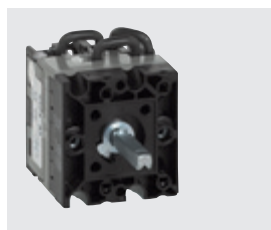
Separate cam switches

Dimensions (p. 245)

▶ FRONT MOUNTING

2 SCREWS - 30 OR 50 MM INTERVAL

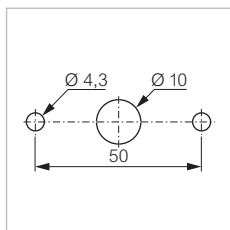
Cat. No.



For PR 12 to PR 160

Price list code

PR 12	-	E
PR 17	-	E
PR 21	-	E
PR 26	-	E

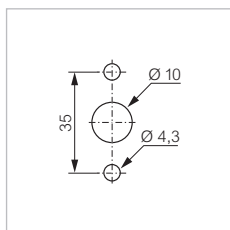


PR 40	-	E
PR 63	-	E
PR 125	-	E
PR 160	-	E

For foolproof shaft profile, add D to the type of mounting code (ED)

2 SCREWS - 35 MM INTERVAL OR □ 36, 48, 54 OR 68

Cat. No.

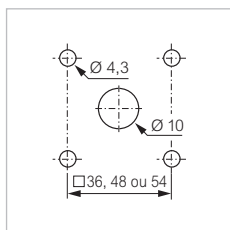


For PR 12 to PR 160

Price list code

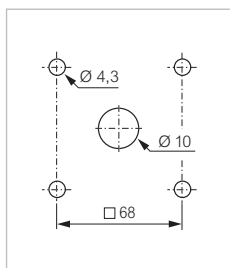
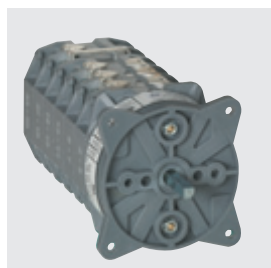
35 mm interval

PR 12	Y533	EZ35
PR 17	Y523	EZ35
PR 21	Y524	EZ35
PR 26	Y525	EZ35



□ 36, 48, or 54 interval (see end of code)

PR 12	Y654	EZ36
PR 17	Y523	EZ36 or EZ48
PR 21	Y524	EZ36 or EZ48
PR 26	Y525	EZ36 or EZ54



□ 68 mm interval

PR 40	Y527	EZ68
PR 63	Y528	EZ68
PR 125	Y531	EZ68
PR 160	Y532	EZ68

For foolproof shaft profile, add D to the type of mounting code (eg: EZD35)

Separate cam switches

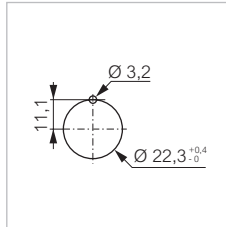
Dimensions (p. 249)

▶ ONE-HOLE MOUNTING Ø 22

WITH PLATE, FRAME AND HANDLE

For PR 12

Cat. No.



Max. number of contacts accepted: 12

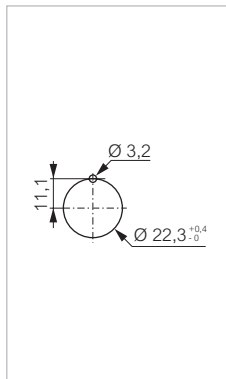
Price list code

<input type="checkbox"/> 48 legend plate with handle	N48MD50	N48MD50
<input type="checkbox"/> 48 legend plate with standard handle and aluminium legend plate	N480MD50	N480MD50

SELECTOR SWITCH WITH KEY

For PR 12

Cat. No.



Supplied with 2 keys n° 455
Max. number of contacts accepted: 8
Legend plate can be used (p. 271)

Price list code

Key lock 90/45° for □ 5 mm shaft

Key free in:

1-3-5-7		C21RC00	C21RC00
3-7		C21RD00	C21RD00
1-5		C21RE00	C21RE00
2-4-6-8		C21RF00	C21RF00
2-6		C21RG00	C21RG00
4-8		C21RH00	C21RH00

48 plate, key free in:

1-3-5-7		C21RC48	C21RC48
3-7		C21RD48	C21RD48
1-5		C21RE48	C21RE48
2-4-6-8		C21RF48	C21RF48
2-6		C21RG48	C21RG48
4-8		C21RH48	C21RH48

Key lock 60/30° for □ 5 mm shaft

Key free in:

1-3-5-7-9-11		C21RJ00	C21RJ00
1-7		C21RK00	C21RK00
3-9		C21RQ00	C21RQ00
5-11		C21RR00	C21RR00
2-4-6-8-10-12		C21RL00	C21RL00
4-10		C21RM00	C21RM00
2-8		C21RS00	C21RS00
6-12		C21RT00	C21RT00

48 plate, key free in:

1-3-5-7-9-11		C21RJ48	C21RJ48
1-7		C21RK48	C21RK48
3-9		C21RQ48	C21RQ48
5-11		C21RR48	C21RR48
2-4-6-8-10-12		C21RL48	C21RL48
4-10		C21RM48	C21RM48
2-8		C21RS48	C21RS48
6-12		C21RT48	C21RT48

- For other bezels, replace 21 in the reference and the price list code with:

- 22 - black plastic
- 23 - grey plastic
- 24 - brilliant chromed brass
- 25 - brilliant chromed plastic

Separate cam switches

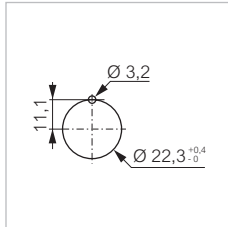
Dimensions (p. 249)

▶ ONE-HOLE MOUNTING Ø 22 (CONTINUED)

WITH SELECTOR SWITCH

For PR 12

Cat. No.



Max. number of contacts accepted: 12

- For other bezels, replace 21 in the reference and the price list code with:

- 22 - black plastic
- 23 - grey plastic
- 24 - brilliant chromed brass
- 25 - brilliant chromed plastic
- 26 - matt anodised aluminium

Handle

- Red
- Green
- Black
- Grey

Long handle

- Red
- Green
- Black
- Grey

Price list code

C21RA01	C21RA01
C21RA02	C21RA02
C21RA03	C21RA03
C21RA08	C21RA08
C21RB01	C21RB01
C21RB02	C21RB02
C21RB03	C21RB03
C21RB08	C21RB08

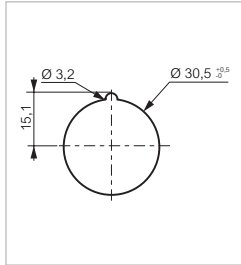
Separate cam switches

Dimensions (p. 245)

► SINGLE HOLE MOUNTING Ø 30

ONE-PIECE SELECTOR SWITCH

Cat. No.



The block consists of:
 - 1 head and a plastic bezel enabling single hole Ø 30 mounting
 - a grey/black small handle
 Max. number of contacts accepted: 24

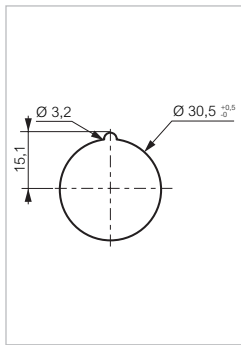
Price list code

PR 17	302PN	30PN
PR 21	303PN	30PN
PR 26	304PN	30PN

Extra charge for chrome brass bezel (instead of plastic) Y644⁽¹⁾ TO BE SPECIFIED

⁽¹⁾ To be added at the end of the reference and price list code

ONE-PIECE KEY OPERATED



The block consists of:
 - 1 head and a plastic bezel enabling single hole Ø 30 mounting
 - 2 keys no. 455 or 1424 A to be stated on order

The key acts as an operating handle
 The key is always captive:
 in positions 2-4-6-8
 The key is free:
 in positions 1-3-5-7 (form p. 277)
 The key can be captive:
 in positions 1 + 5 or 3 + 7
 The serrated edge of the key acts as an indicator of the switch position

Max. number of contacts accepted: 8

Price list code

PR 17		30C2	30C
PR 21		30C3	30C
PR 26		30C4	30C

Extra charges

Key with plastic grip (recommended for more than 4 contacts) Y646 30CM
 Chrome brass bezel Y644⁽¹⁾ TO BE SPECIFIED
 Other key (other than 455 or 1424) Y645⁽¹⁾ TO BE SPECIFIED

⁽¹⁾ To be added at the end of the reference and price list code

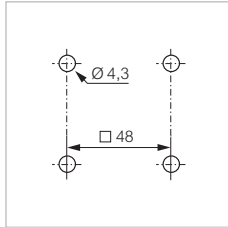
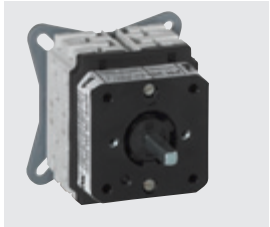
Separate cam switches

Dimensions (p. 245)

▶ REAR MOUNTING

2 SCREWS - INTERVAL □ 48 OR 68

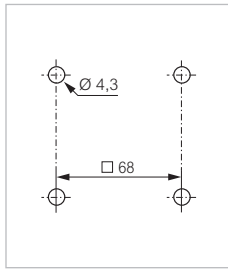
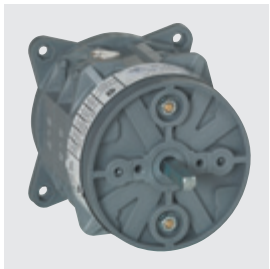
Cat. No.



For PR 12 to PR 160

Price list code

PR 12	Y513	S
PR 17	Y503	S
PR 21	Y504	S
PR 26	Y505	S



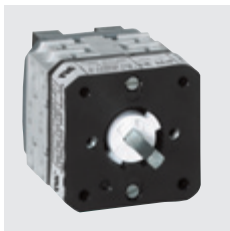
PR 40
PR 63
PR 125
PR 160

Y507
Y508
Y511
Y517

S
S
S
S

ON DIN RAIL

Cat. No.



For PR 12 to PR 26

Price list code

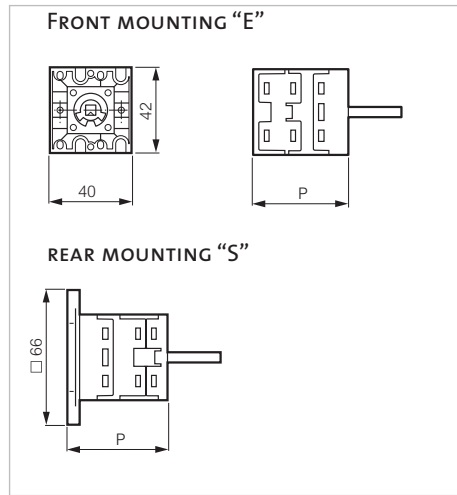
Max. number of contacts
accepted: 8

PR 12	Y553	SX
PR 17	Y543	SX
PR 21	Y544	SX
PR 26	Y545	SX

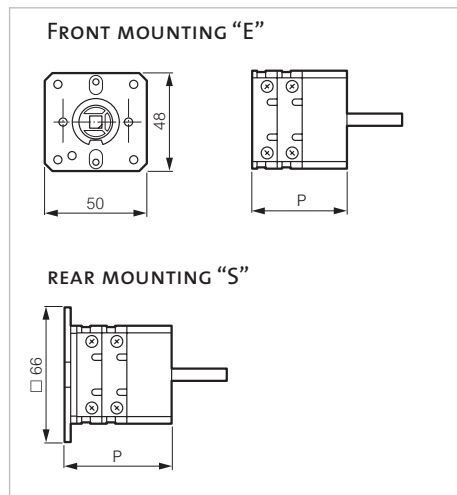
Separate cam switches

► DIMENSIONS

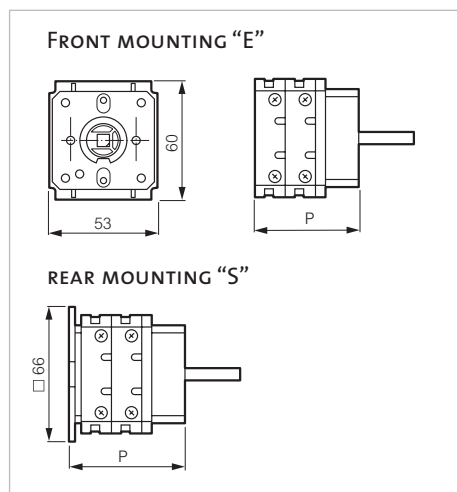
FRONT AND REAR MOUNTING (E AND S)



PR 12	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	36	42
	3-4	46	52
	5-6	56	62
	7-8	66	72
	9-10	76	82
	11-12	86	92
	13-14	122	128
	15-16	132	138
	17-18	142	148
	19-20	152	158
	21-22	162	168
	23-24	172	178



PR 17/21	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	33	39
	3-4	45	51
	5-6	57	63
	7-8	69	75
	9-10	81	87
	11-12	93	99
	13-14	105	111
	15-16	117	123
	17-18	129	135
	19-20	141	147
	21-22	153	159
	23-24	165	171



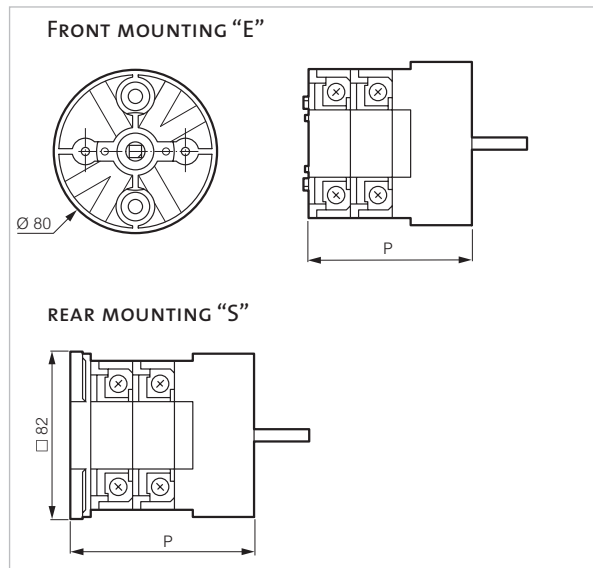
PR 26	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	36	42
	3-4	51	57
	5-6	66	72
	7-8	81	87
	9-10	96	102
	11-12	111	117
	13-14	126	132
	15-16	141	147
	17-18	156	162
	19-20	171	177
	21-22	186	192
	23-24	201	207

* P = Depth

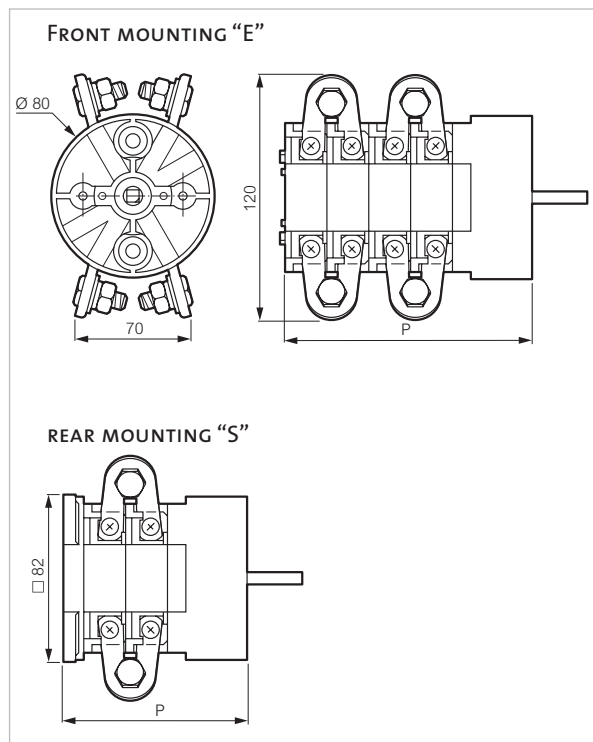
Separate cam switches

► DIMENSIONS (CONTINUED)

FRONT AND REAR MOUNTING (E AND S)



PR 40/63	No. of contacts	Front mounting P*	Rear mounting p*
	1-2	60	70
	3-4	80	90
	5-6	100	110
	7-8	120	130
	9-10	140	150
	11-12	160	170
	13-14	180	190
	15-16	200	210
	17-18	220	230
	19-20	240	250
	21-22	260	270
	23-24	280	290



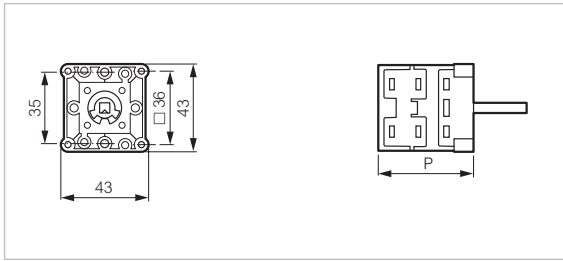
PR 125/160	No. of contacts	Front mounting P*	Rear mounting p*
	1-2	80	90
	3-4	120	130
	5-6	160	170
	7-8	200	210
	9-10	240	250
	11-12	280	290

* P = Depth

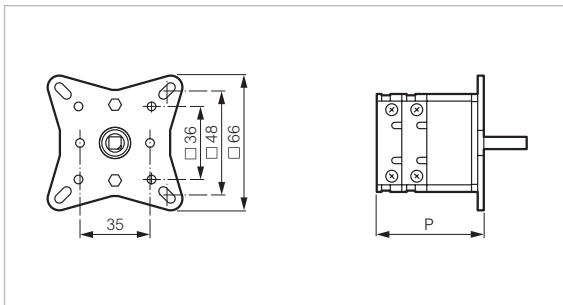
Separate cam switches

► DIMENSIONS (CONTINUED)

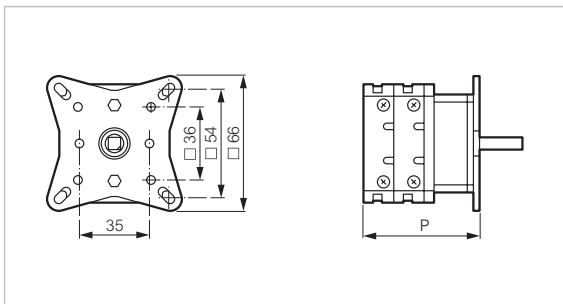
FRONT MOUNTING (EZ)



PR 12	No. of contacts	P*
	1-2	36
	3-4	46
	5-6	56
	7-8	66
	9-10	76
	11-12	86
	13-14	122
	15-16	132
	17-18	142
	19-20	152
	21-22	162
	23-24	172



PR 17/21	No. of contacts	P*
	1-2	39
	3-4	51
	5-6	63
	7-8	75
	9-10	87
	11-12	99
	13-14	111
	15-16	123
	17-18	135
	19-20	147
	21-22	159
	23-24	171



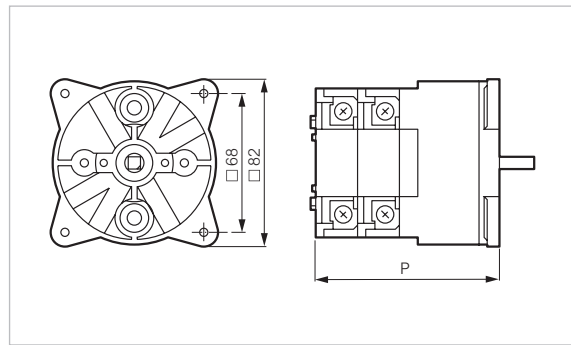
PR 26	No. of contacts	P*
	1-2	42
	3-4	57
	5-6	72
	7-8	87
	9-10	102
	11-12	117
	13-14	132
	15-16	147
	17-18	162
	19-20	177
	21-22	192
	23-24	207

* P = Depth

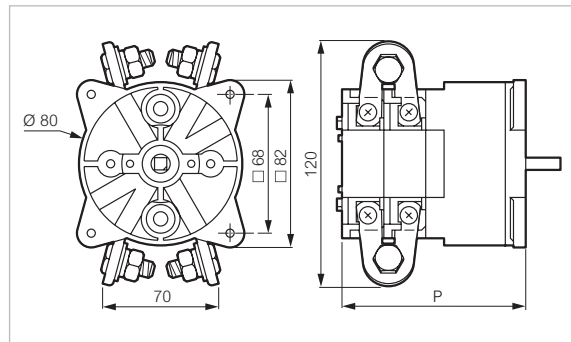
Separate cam switches

► DIMENSIONS (CONTINUED)

FRONT MOUNTING (EZ)



PR 40/63	No. of contacts	P*
	1-2	60
	3-4	80
	5-6	100
	7-8	120
	9-10	140
	11-12	160
	13-14	180
	15-16	200
	17-18	220
	19-20	240
	21-22	260
	23-24	280



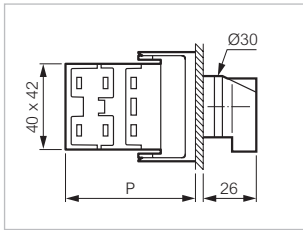
PR 125/160	No. of contacts	P*
	1-2	80
	3-4	120
	5-6	160
	7-8	200
	9-10	240
	11-12	280

* P = Depth

Separate cam switches

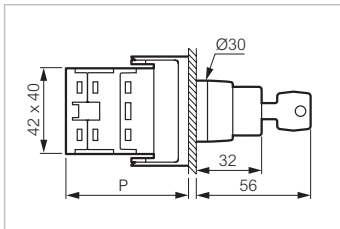
► DIMENSIONS (CONTINUED)

SINGLE HOLE MOUNTING Ø 22 (E N48MD50)

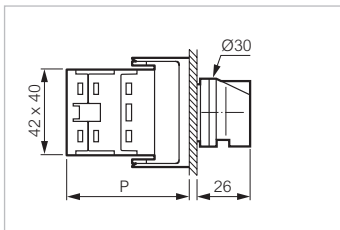


PR 12	No. of contacts	P*
	1-2	51
	3-4	61
	5-6	71
	7-8	81
	9-10	91
	11-12	101

SINGLE HOLE MOUNTING Ø 22 (E C21XXXX)



PR 12	No. of contacts	P*
With key	1-2	51
	3-4	61
	5-6	71
	7-8	81



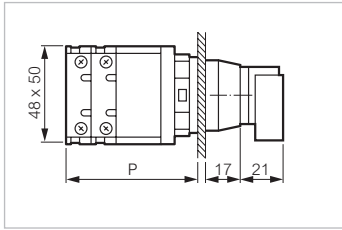
PR 12	No. of contacts	P*
With handle/long handle	1-2	51
	3-4	61
	5-6	71
	7-8	81
	9-10	91
	11-12	101

* P = Depth

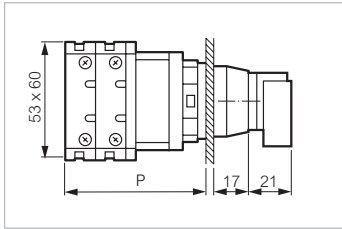
Separate cam switches

► DIMENSIONS (CONTINUED)

SINGLE HOLE MOUNTING Ø 30 (E 30PN)



PR 17/21	No. of contacts	P*
	1-2	47.5
	3-4	59.5
	5-6	71.5
	7-8	83.5
	9-10	95.5
	11-12	107.5
	13-14	119.5
	15-16	131.5
	17-18	143.5
	19-20	155.5
	21-22	167.5
	23-24	179.5



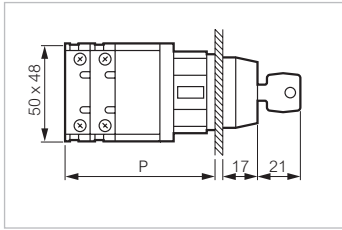
PR 26	No. of contacts	P*
	1-2	50.5
	3-4	65.5
	5-6	80.5
	7-8	95.5
	9-10	110.5
	11-12	125.5
	13-14	140.5
	15-16	155.5
	17-18	170.5
	19-20	185.5
	21-22	200.5
	23-24	215.5

* P = Depth

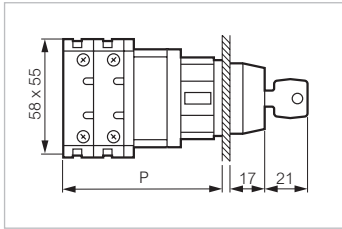
Separate cam switches

► DIMENSIONS (CONTINUED)

SINGLE HOLE MOUNTING Ø 30 (E 30C)



PR 17/21	No. of contacts	P*
	1-2	56.5
	3-4	68.5
	5-6	80.5
	7-8	92.5
	9-10	104.5
	11-12	116.5
	13-14	128.5
	15-16	140.5
	17-18	152.5
	19-20	164.5
	21-22	176.5
	23-24	188.5



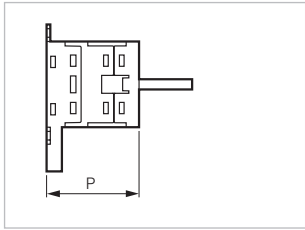
PR 26	No. of contacts	P*
	1-2	59.5
	3-4	74.5
	5-6	89.5
	7-8	104.5
	9-10	119.5
	11-12	134.5
	13-14	149.5
	15-16	164.5
	17-18	179.5
	19-20	194.5
	21-22	209.5
	23-24	224.5

* P = Depth

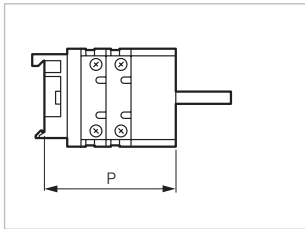
Separate cam switches

► DIMENSIONS (CONTINUED)

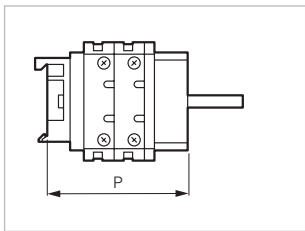
REAR MOUNTING ON DIN RAIL (SX)



PR 12	No. of contacts	P*
	1-2	36
	3-4	46
	5-6	56
	7-8	66



PR 17/21	No. of contacts	P*
	1-2	49
	3-4	61
	5-6	73
	7-8	85











PR 26	No. of contacts	P*
	1-2	52
	3-4	67
	5-6	82
	7-8	97

* P = Depth

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p.122)
Mini cam switches are only available in standard formats.

▶ IV - CHOICE OF PRESENTATION

		Page
▶ Complete plate, frame and handle PR 12 to PR 160		254 254
▶ Plate, frame and handle: other combinations Plate and frame for PR 12 to PR 160 Handles for PR 12 to PR 160		255 255 256
▶ Padlockable Plate, frame and handle for PR 12 to PR 160 Clutch drive without door interlock for PR 12 to PR 160		257 257 258
▶ Enclosure Compact size BPR for PR 12 Normal type BC for PR 12 to PR 26 Normal type BCF for PR 40 to PR 63		260 260 261 262
▶ With key locking Plate, frame and handle for PR 12 to PR 160		264 264
▶ Parallel coupling of 2 switches With handle PR 12 to PR 160		265 265
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▶ Dual-voltage device With plate, frame and handle PR 12 to PR 26		267 267

Separate cam switches

Standard engraving (p. 276)

▶ PLATE, FRAME AND HANDLE

Type

Cat. No.



For PR 12 to PR 160

Aluminium plate + grey/black handle/long handle
Blank label
The price for the presentation includes engraving of the usual texts and symbols (engraving to be specified)

Price list code

PR 12 to PR 26

48 plate and frame

- + small handle
- + duty label + small handle
- + small lever
- + Duty label + small lever

Q48PN
Q480PN
Q48PC
Q480PC

Q48PN50
Q480PN50
Q48PC50
Q480PC50

64 plate and frame

- + small handle
- + duty label + small handle
- + small lever
- + Duty label + small lever

Q64PN
Q640PN
Q64PC
Q640PC

Q64PN50
Q640PN50
Q64PC50
Q640PC50

PR 40 to PR 160

64 plate and frame

- + medium handle
- + duty label + medium handle
- + small lever
- + small lever

Q64MN
Q640MN
Q64PC
Q640PC

Q64MN60
Q640MN60
Q64PC60
Q640PC60

72 plate and frame

- + medium handle
- + duty label + medium handle
- + small lever
- + Duty label + small lever

Q72MN
Q720MN
Q72PC
Q720PC

Q72MN60
Q720MN60
Q72PC60
Q720PC60

96 plate and frame

- + large handle
- + large lever

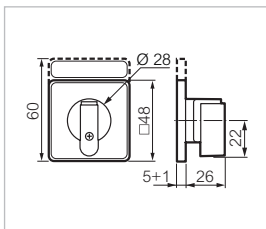
Q96GN
Q96GC

Q96GN60
Q96GC60

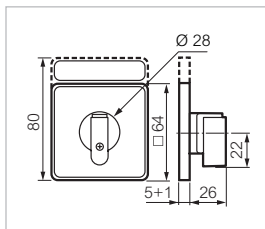
Extra charges

- Standard engraving
- Customised engraving

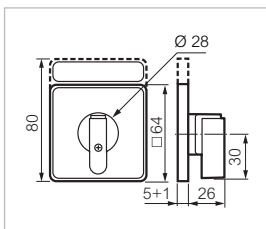
Y000
Y100



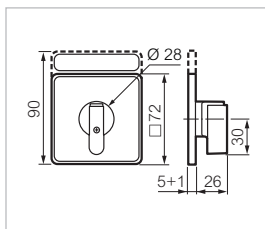
Q48PN



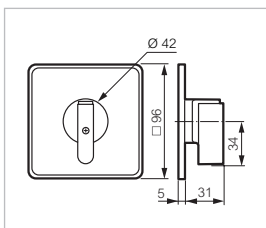
Q64PN



Q64MN



Q72MN



Q96GN

Separate cam switches

Standard engraving (p. 276)

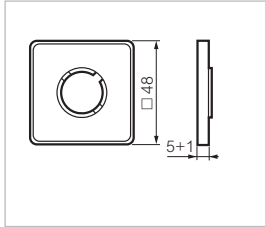
▶ PLATE AND FRAME

Other combinations

Cat. No.



Q61



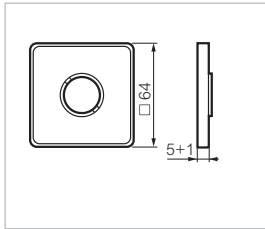
□ 48

For PR 12 to PR 160

For complete presentation, add handle
The price for the presentation includes engraving of standard texts and symbols (p. 276)
Other engraving (form p. 277)
Duty label with aluminium plate



Q780



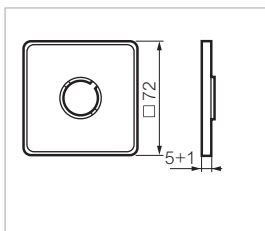
□ 64

□ 48 plate (PR 12 to PR 26)

- Red
- Red with duty label
- Black
- Black with duty label
- Yellow
- Yellow with duty label
- Aluminium
- Aluminium with duty label

Price list code

Q41	Q41
Q410	Q410
Q43	Q43
Q430	Q430
Q45	Q45
Q450	Q450
Q48	Q48
Q480	Q480

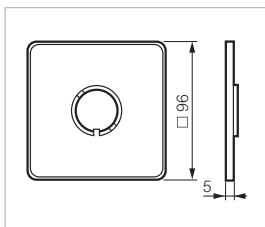


□ 72

□ 64 plate (PR 12 to PR 160)

- Red
- Red with duty label
- Black
- Black with duty label
- Yellow
- Yellow with duty label
- Aluminium
- Aluminium with duty label

Q61	Q61
Q610	Q610
Q63	Q63
Q630	Q630
Q65	Q65
Q650	Q650
Q64	Q64
Q640	Q640



□ 96

□ 72 plate (PR 12 to PR 160)

- Red
- Red with duty label
- Black
- Black with duty label
- Yellow
- Yellow with duty label
- Aluminium
- Aluminium with duty label

Q71	Q71
Q710	Q710
Q73	Q73
Q730	Q730
Q75	Q75
Q750	Q750
Q72	Q72
Q720	Q720

□ 96 plate (PR 40 to PR 160)

- Red
- Black
- Yellow
- Aluminium

Q91	Q91
Q93	Q93
Q95	Q95
Q96	Q96

Separate cam switches

Standard engraving (p. 276)

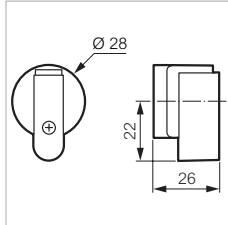
▶ HANDLES

Other combinations

Cat. No.



MN61



PN

For PR 12 to PR 160

For complete products, add plate + handle

Price list code

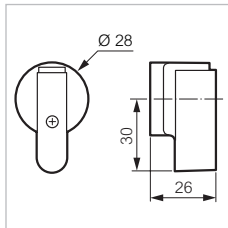
PR 12 to PR 26

- Red - small handle
- Black - small handle
- Red - medium handle
- Black - medium handle
- Red - large handle
- Black - large handle
- Red - small lever
- Black - small lever

PN51	PN51
PN53	PN53
MN51	MN51
MN53	MN53
GN51	GN51
GN53	GSN53
PC51	PC51
PC53	PC53



GN63

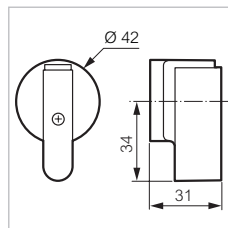


MN

PR 40 to PR 160

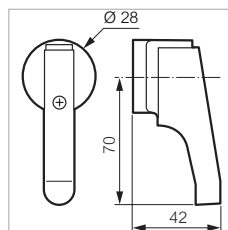
- Red - medium handle
- Black - medium handle
- Red - large handle
- Black - large handle
- Red - small lever
- Black - small lever
- Red - large lever
- Black - large lever

MN61	MN61
MN63	MN63
GN61	GN61
GN63	GN63
PC61	PC61
PC63	PC63
GC61	GC61
GC63	GC63

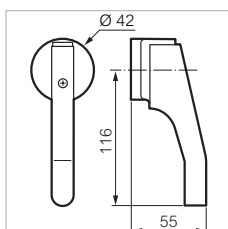


GN

Version with foolproofing and other colours (see p. 269/270)



PC



GC

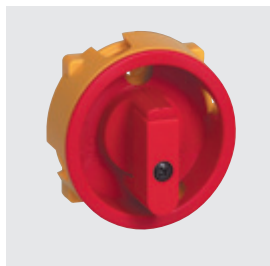
Separate cam switches

Standard engraving (p. 276)

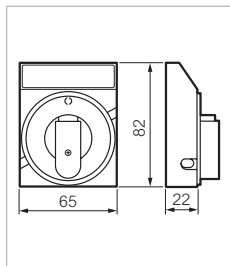
► PADLOCKABLE PRESENTATION

Other combinations

Cat. No.



J48PN51



For PR 12 to PR 160

Yellow presentation, red handle
for up to 4 padlocks

Price list code

PR 12 to PR 26 - Mounting 30 mm interval

small frame □ 48,

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J48PN51
J480PN51
J481PN51
J482PN51
J483PN51

J48PN51
J480PN51
J481PN51
J482PN51
J483PN51

Medium frame □ 72,

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J72MN51
J720MN51
J721MN51
J722MN51
J723MN51

J72MN51
J720MN51
J721MN51
J722MN51
J723MN51

PR 40 to PR 160 - Mounting 50 mm interval

Medium frame □ 72,
medium red handle

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J72MN61
J720MN61
J721MN61
J722MN61
J723MN61

J72MN61
J720MN61
J721MN61
J722MN61
J723MN61

Large frame □ 96,

With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J960GN61
J961GN61
J962GN61
J963GN61

J960GN61
J961GN61
J962GN61
J963GN61

Extra charges

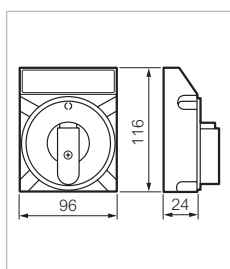
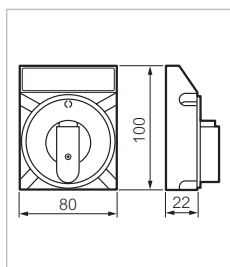
Standard engraving
Customised engraving
IP 65 version

Y000
Y100
Y661

If the switching angle is different from 60°, replace J with H



V723MN



- For version with grey plate, grey/black handle,
replace the letter J with the letter V in the
reference and delete the last 2 two digits (51 or 61)

- If the switching angle is different from 60°
replace V with G in the reference

- For difference mounting intervals, the addition of an
adaptor plate allows intervals EZ 35, EZ 36/48/68 (see
p. 247/248)

The reference then becomes:

J44/440 for □ 48

J74/740 for □ 72

J940 for □ 96

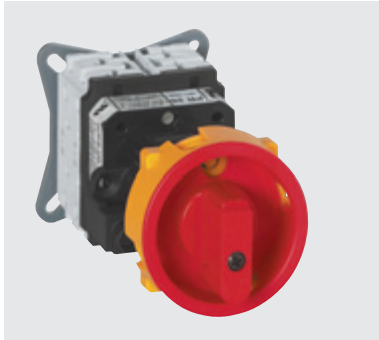
Separate cam switches

Standard engraving (p. 276)

► PADLOCKABLE PRESENTATION (CONTINUED)

With clutch drive and without door interlock

Cat. No.



R5J48PN61

For PR 12 to PR 160

Yellow presentation, red handle
for up to 4 padlocks

Rear mounting

Price list code

PR 12 to PR 26

Small frame □ 48,
Front mounting possible
(A, C or D see p. 259)

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

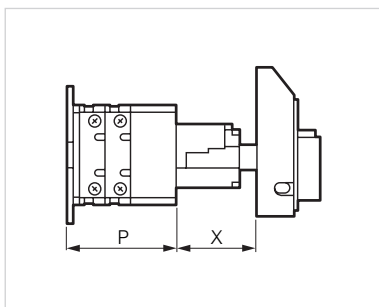
R5J48PN61	R5J48PN61
R5J480PN61	R5J480PN61
R5J481PN61	R5J481PN61
R5J482PN61	R5J482PN61
R5J483PN61	R5J483PN61

Medium frame □ 72,
Front mounting possible
(A, C, D or E see p. 259)

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

R5J72MN61	R5J72MN61
R5J720MN61	R5J720MN61
R5J721MN61	R5J721MN61
R5J722MN61	R5J722MN61
R5J723MN61	R5J723MN61

If the switching angle is different from 60°:
Replace J with H



S mounting method (see p. 245)
X = 45 to 65 mm (+ 31, 62 or 93 mm
with extension piece)

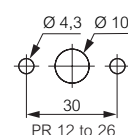
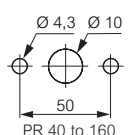
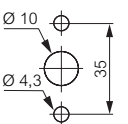
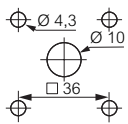
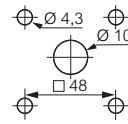
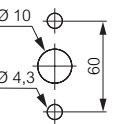
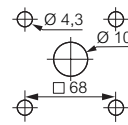
Separate cam switches

Standard engraving (p. 276)

► PADLOCKABLE PRESENTATION (CONTINUED)

With clutch drive and without door interlock

Cat. No.

		With clutch drive and without door interlock	Cat. No.	
A		For PR 12 to PR 160 Yellow presentation, red handle for up to 4 padlocks Rear mounting		
				
C		Medium frame □ 72, Front mounting possible (B, C, D or E) Without engraving With engraving (state requirement) With engraving (Inter principal) With engraving (Hauptschalter) With engraving (Main switch)	Price list code	
D			R6J72MN61	R6J72MN61
E		Large frame □ 96, Front mounting possible (B, C, D, E, or G) With engraving (state requirement) With engraving (Inter principal) With engraving (Hauptschalter) With engraving (Main switch)	R6J720MN61	R6J720MN61
F			R6J721MN61	R6J721MN61
G			R6J722MN61	R6J722MN61
			R6J723MN61	R6J723MN61
		Extra charges		
		Extra charge for standard engraving	Y000	
		Extra charge for customised engraving	Y100	
		Extra charge for IP 65 version	Y662	
		Accessories		
		Adjusting clips for door alignment	WR01	WR01
		Extension piece 31 mm, for control shaft (max. 3 per switch)	WR02	WR02
		Relay terminals 16 mm ² (pair)	WR03	WR03
		Operating key, when door open	WR04	WR04
		If the switching angle is different from 60°: Replace J with H		

- For version with grey plate, grey/black handle
replace the letter J with the letter V in the
reference and delete 61

- For clutch drive with door interlock
replace the letter R with V in the reference

Separate cam switches

Standard engraving (p. 276)

► ENCLOSURE

TYPE BPR

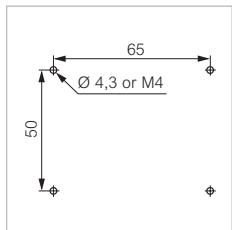
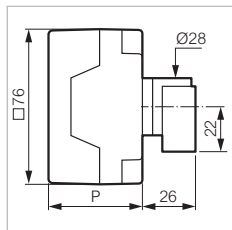
Compact size

Cat. No.



PR 12 for mounting in enclosure, special version with inverted terminals

Base mounting PR 12
 Enclosure in light grey, self-extinguishing thermoplastic
 IP 40
 4 knock-out \varnothing 19 cable entries for Pg 11 with nut
 The price for the presentation includes engraving of the standard texts and symbols



P *	Price list code	Contacts
46	BPR01	1-2 CONTACTS
58	BPR02	3-4 CONTACTS

P * = Depth

- for other legend plate colours
 replace Q48 (in the reference and price list code) with:
 Q41 - \square 48 red legend plate
 Q43 - \square 48 black legend plate
 Q45 - \square 48 yellow legend plate

- for other handle colours
 replace PN (in the reference) with:
 PN51 - small red handle
 PN53 - small black handle

PR 12 - 1 or 2 contacts

- 48 plate and frame
- Aluminium, small grey/black handle
- Yellow, padlockable presentation, small red handle
- Grey, padlockable presentation, small grey-black handle

Price list code

BPR01Q48	BPRQ48PN
BPR01J	BPRJ48PN51
BPR01V	BPRV48PN

PR 12 - 3 or 4 contacts

- 48 plate and frame
- Aluminium, small grey/black handle
- Yellow, padlockable presentation, small red handle
- Grey, padlockable presentation, small grey-black handle

BPR02Q48	BPRQ48PN
BPR02J	BPRJ48PN51
BPR02V	BPRV48PN

Accessories

Cable gland Pg11 with nut	CM10P	CM10P
Relay terminals 2 x 6 mm ² (max. 2)	162122	162122

Extra charges

Standard engraving	Y000
Customised engraving	Y100
IP 65 version	Y632

Foolproofing (see p. 281)

Separate cam switches

Standard engraving (p. 276)

ENCLOSURE

TYPE BC

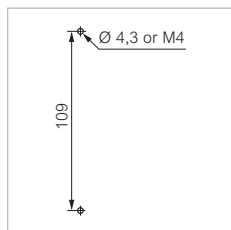
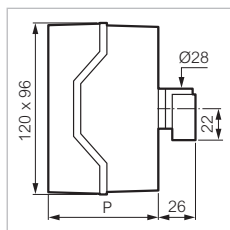
Standard size enclosure

Cat. No.



PR 12 to PR 26

Version with base mounted cam switch
Enclosure in self-extinguishing thermoplastic
black base, light grey cover
IP 40
4 knock-out \varnothing 23 cable entries for Pg 16 with nut
The price for the presentation includes engraving
standard texts and symbols



P *	Price list code	Contacts
77	BC21-23	1-6 CONTACTS (1-4 PR26)
101	BC22-24	7-10 CONTACTS (5-8 PR26)

P * = Depth

- for other colours, legend plates and handles
replace Q3 (in the reference and price list code with:

- Q1 - aluminium legend plate, red handle
- R1 - red legend plate, red handle
- J1 - red legend plate, yellow handle
- N3 - black legend plate, black handle

Price list code

PR 12 - 1 to 6 contacts

<input type="checkbox"/> 64 plate and frame		
● Aluminium, black handle	BC21Q3	BCQ3
<input type="checkbox"/> 48 plate and frame		
● Yellow, padlockable presentation red handle	BC21J48	BCJ48
● Grey, padlockable presentation, grey/black handle	BC21V48	BCV48

PR 12 - 7 to 10 contacts

<input type="checkbox"/> 64 plate and frame		
● Aluminium, black handle	BC22Q3	BCQ3
<input type="checkbox"/> 48 plate and frame		
● Yellow, padlockable presentation red handle	BC22J48	BCJ48
● Grey, padlockable presentation, grey/black handle	BC22V48	BCV48

PR 17-21 - 1 to 6 contacts

PR 26 - 1 to 4 contacts

<input type="checkbox"/> 64 plate and frame		
● Aluminium, black handle	BC23Q3	BCQ3
<input type="checkbox"/> 48 plate and frame		
● Yellow, padlockable presentation red handle	BC23J48	BCJ48
● Grey, padlockable presentation, grey/black handle	BC23V48	BCV48

PR 17-21 - 7 to 10 contacts

PR 26 - 5 to 8 contacts

<input type="checkbox"/> 64 plate and frame		
● Aluminium, black handle	BC24Q3	BCQ3
<input type="checkbox"/> 48 plate and frame		
● Yellow, padlockable presentation red handle	BC24J48	BCJ48
● Grey, padlockable presentation, grey/black handle	BC24V48	BCV48

Accessories

Cable gland Pg16 with nut	CM14P	CM14P
Relay terminals (pair)	WR03	WR03
Tamperproof screw (pair)	WR05	WR05

Extra charges

Standard engraving	Y000
Customised engraving	Y100
IP 65 version	Y663

Separate cam switches

Standard engraving (p. 276)

► ENCLOSURE

TYPE BCF

Standard size enclosure

Cat. No.



PR 40 to PR 63

Version with base mounted cam switch
Enclosure in light grey, self-extinguishing thermoplastic

IP 40

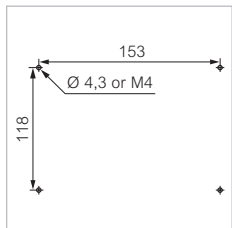
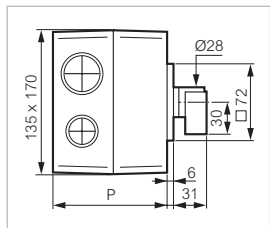
10 knock-out cable entries:

6 x ϕ 29 for Pg 21

(2 above and below, 1 on each side)

4 x ϕ 38 for Pg 29 (1 on each side)

The price for the presentation includes engraving of the standard texts and symbols



PR 40-63 - 1 and 2 contacts

Without presentation

72 plate and frame

● Aluminium, medium grey/black handle

● Yellow, padlockable presentation

medium red handle

96 plate and frame

● Aluminium, large grey/black handle

Price list code

BCF140 BCF

BCF140Q72 BCFQ72MN

BCF140J72 BCFJ72MN61

BCF140Q96 BCFQ96GN

PR 40-63 - 3 and 4 contacts

Without presentation

72 plate and frame

● Aluminium, medium grey/black handle

● Yellow, padlockable presentation

medium red handle

96 plate and frame

● Aluminium, large grey/black handle

BCF240 BCF

BCF240Q72 BCFQ72MN

BCF240J72 BCFJ72MN61

BCF240Q96 BCFQ96GN

D	Price list code	Contacts
107	BCF140-240	1-4 CONTACTS
145	BCF340-440	5-8 CONTACTS

P * = Depth

Separate cam switches

Standard engraving (p. 276)

► ENCLOSURE

TYPE BCF (continued)

Standard size enclosure

Cat. No.



PR 40-63 - 5 and 6 contacts

Without presentation

72 plate and frame

● Aluminium,
medium grey/black handle

● Yellow, padlockable presentation
medium red handle

96 plate and frame

● Aluminium,
large grey/black handle

Price list code

BCF340

BCF

BCF340Q72

BCFQ72MN

BCF340J72

BCFJ72MN61

BCF340Q96

BCFQ96GN

PR 40-63 - 7 and 8 contacts

Without presentation

72 plate and frame

● Aluminium,
medium grey/black handle

● Yellow, padlockable presentation
medium red handle

96 plate and frame

● Aluminium,
large grey/black handle

BCF440

BCF

BCF440Q72

BCFQ72MN

BCF440J72

BCFJ72MN61

BCF440Q96

BCFQ96GN

Accessories

Cable gland Pg 21 with nut

Cable gland Pg 29 with nut

CM18P

CM18P

CM24P

CM24P

Extra charges

Standard engraving

Customised engraving

IP 55 version

Y000

Y100

Y647

Separate cam switches

Standard engraving (p. 276)

► KEYLOCKING DEVICE

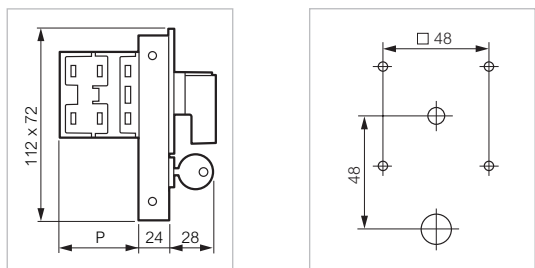
Plate and frame (quadral)

Cat. No.



For PR 12 to PR 160
For switch in front mounting mode
With keylocking

Handle locked in all positions
key no. 455
(or 1424A, state requirement on order, no extra charge)
Key can be withdrawn in locked and unlocked positions
On request, the handle can be:
- locked in certain positions (to be stated on order)
The key can be:
- withdrawn in locked position only (to be stated on order)



P*: front mounting E (p. 245)

* P = Depth

Price list code

PR 12 to PR 160

- 64 plate and frame
- Aluminium, medium grey/black handle
- 72 plate and frame
- Aluminium, medium grey/black handle

Q64MNC	Q64MNC
Q72MNC	Q72MNC

Extra charges

- Other combinations Y645
- Foolproofing and special shaft (see p. 281)

- for other plate colours

- replace (in the reference and price list code) Q64 with:
 - Q61 - red plate
 - Q63 - black plate
 - Q65 - yellow plate
- replace (in the reference and price list code) Q72 with:
 - Q71 - red plate
 - Q73 - black plate
 - Q75 - yellow plate

- for other medium handle colours PR 12 to PR 26

- replace (in the reference and price list code) MN with:
 - MN51 - red medium handle
 - MN53 - black medium handle

- for other handle colours PR 40 to PR 160

- replace (in the reference and price list code) MN with:
 - MN61 - red medium handle
 - MN63 - black medium handle

Separate cam switches

Standard engraving (p. 276)

▶ PARALLEL COUPLING OF 2 SWITCHES

Plate and frame (quadral)

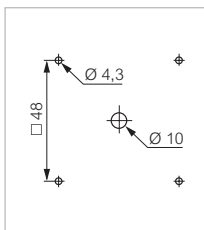
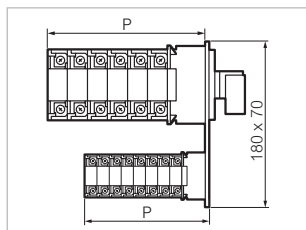
Cat. No.



For PR 12 to PR 160
For switch in front mounting mode

Applications:
- For diagrams requiring more contacts than the maximum number possible
- where there is limited depth available

There is a driving switch actuated by the handle, and a driven switch actuated by a gear train
Both switches have the same switching angle and number of positions



P*: front mounting E (p. 245)

* P = Depth

- for other plate colours, replace (in the reference and the price list code)

- Q64 with:
 - Q61 - red plate
 - Q63 - black plate
 - Q65 - yellow plate
- Q72 with:
 - Q71 - redplate
 - Q73 - blackplate
 - Q75 - yellow plate
- Q96 with:
 - Q91 - red plate
 - Q93 - black plate
 - Q95 - yellow plate

- for other handle colours, replace (in reference and price list code)

- For PR 12 to PR 26, MN or PC with:
 - MN51 or PC51 - red medium handle / small lever
 - MN53 or PC53 - black medium handle / small lever
- For PR40 to PR 160, MN or PC with:
 - MN61 or PC61 - red medium handle / small lever
 - MN63 or PC63 - black medium handle / small lever
- For PR40 to PR 160, GN or GC with:
 - GN61 or GC61 - red large handle / large lever
 - GN63 or GC63 - black large handle / large lever

Price list code

PR 12 to PR 160

Driving switch presentation

- 64 plate and frame
 - Aluminium, medium grey/black handle
- 72 plate and frame
 - Aluminium, medium grey/black handle
- 96 plate and frame
 - Aluminium, large grey/black handle

Q64MNAP	Q64MNAP
Q72MNAP	Q72MNAP
Q96GNAP	Q96GNAP

Extra charges

Foolproofing and special shaft (see p. 281)

Possibility of coupling 2 cam switches in parallel:

Driven switch	Driving switch				
	PR 12	PR 17 - PR 21	PR 26	PR 40 - PR 63	PR 125 - PR 160
PR 12	X	X	X	X	X
PR 17 - PR 21		X	X	X	X
PR 26			X	X	X
PR 40 - PR 63				X	

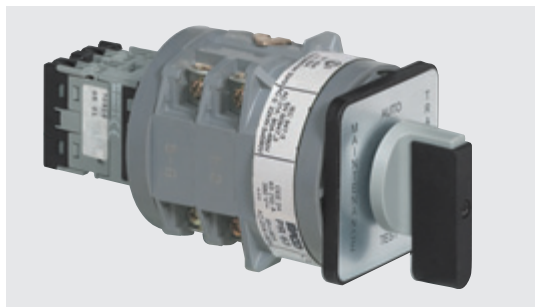
Separate cam switches

Standard engraving (p. 276)

► SERIAL COUPLING OF 2 SWITCHES

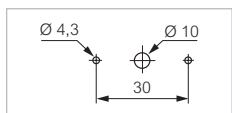
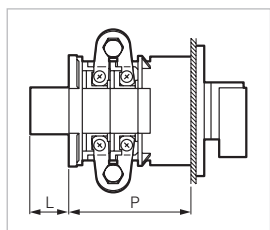
Plate and frame (quadral)

Cat. No.

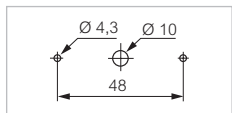


For PR 12 to PR 160
For switch in front mounting mode

Applications:
- for very different current circuits
- limited to 12 contact stages in total (1 PR stage 125-160 = 2 stages)
There is a driving switch actuated by the handle,
and a driven switch
Both switches have the same switching angle and number of positions



PR 12 TO PR 26



PR 40 TO PR 160

P*: see front mounting E (p. 245)

* P = Depth

PR 12 to PR 160

Driving switch presentation

- 64 plate and frame
 - Aluminium, medium grey/black handle
- 72 plate and frame
 - Aluminium, medium grey/black handle
- 96 plate and frame
 - Aluminium, large grey/black handle

Price list code

Q64MNAS	Q64MNAS
Q72MNAS	Q72MNAS
Q96GNAS	Q96GNAS

Extra charges

Foolproofing and special shaft (see p. 281)

Possibility of coupling 2 cam switches in series:

Driven switch	Driving switch				
	PR 12	PR 17 - PR 21	PR 26	PR 40 - PR 63	PR 125 - PR 160
PR 12		X	X	X	X
PR 17 - PR 21			X	X	X
PR 26				X	X
PR 40 - PR 63					X

- for other plate colours, replace (in the reference and the price list code)

Q64 with:

- Q61 - red plate
- Q63 - black plate
- Q65 - yellow plate

Q72 with:

- Q71 - red plate
- Q73 - blackplate
- Q75 - yellow plate

Q96 with:

- Q91 - red plate
- Q93 - black plate
- Q95 - yellow plate

- for other handle colours,

replace (in reference and price list code)

For PR 12 to PR 26, MN or PC with:

- MN51 or PC51 - red medium handle / small lever
- MN53 or PC53 - black medium handle / small lever

For PR40 to PR 160, MN or PC with:

- MN61 or PC61 - red medium handle / small lever
- MN63 or PC63 - black medium handle / small lever

For PR40 to PR 160, GN or GC with:

- GN61 or GC61 - red large handle / large lever
- GN63 or GC63 - black large handle / large lever

Separate cam switches

Standard engraving (p. 276)

► DUAL-VOLTAGE DEVICE

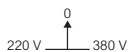
Plate and frame (quadral)

Cat. No.

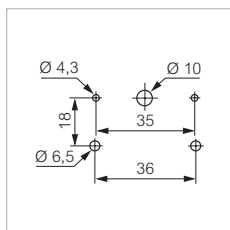
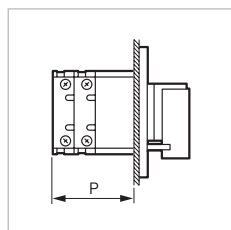


For PR 12 to PR 26
For switch in front mounting mode

Applications:
For locking the handle in the right or left position,
to prevent wrong switching



Example: Off position in the middle
and max. 90° rotation
to right or left



P*: see front mounting E (p. 245)

* P = Depth

PR 12

Dual-voltage device
with □ 64 plate and frame
● Aluminium,
medium grey/black handle

Price list code

EZS64MN EZS64MN

PR 17-21 and PR 26

Dual-voltage device
with □ 72 plate and frame
● Aluminium,
medium grey/black handle

EZS72MN EZS72MN

Extra charges

Foolproofing and special shaft (see p. 281)

- for other plate colours, replace (in the reference and the price list code)
EZS64 with:
EZS61 - red plate
EZS63 - black plate
EZS65 - yellow plate
EZS72 with:
EZS71 - red plate
EZS73 - black plate
EZS75 - yellow plate





- for other medium handle colours, replace (in reference and price list code)
MN with:
MN51 - red medium handle
MN53 - black medium handle

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 122)
Mini cam switches are only available in standard formats.

► V - OPTIONS AND COMPONENTS

FUNCTIONS

	Page
► Handles and levers Handles PR 12 to PR 26 Handles PR 40 to PR 160 Levers PR 12 to PR 26 Levers PR 40 to PR 160	 269 269 269 270 270
► Plates Quadral type Duty label Frame	 271 271 272 272
► Plate and frame Quadral type Mounting Ø 22 Terminal covers	 273 273 274 274
► Rear protective shroud For PR 12 to PR 63	 275 275
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► Automatic spring return Reduced type RN Normal type R Special reinforced type RS	 278 278 278 279
► Miscellaneous versions One-way rotation (SRO) Blocking-off between 2 positions Tropicalised version Faston terminals Reinforced IP rating Special shafts	 279 280 280 280 280 281 281
► Empty enclosures (for local assembly) BPR type BC type BCF type	 282 282 282 282

Separate cam switches

▶ HANDLES

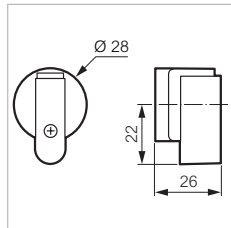
HANDLES

FOR PR 12 TO PR 26

Cat. No.



PN50



PN

For □ 5 shaft

Small handle

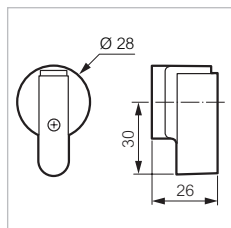
- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

Price list code

PN50	PN50
PND50	PND50
PN51	PN51
PND51	PND51
PN53	PN53
PND53	PND53



MN51

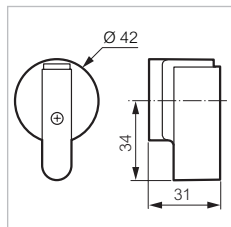


MN

Medium handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

MN50	MN50
MND50	MND50
MN51	MN51
MND51	MND51
MN53	MN53
MND53	MND53



GN

Large handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

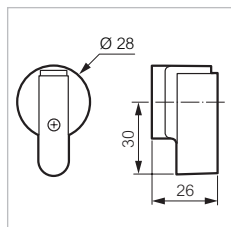
GN50	GN50
GND50	GND50
GN51	GN51
GND51	GND51
GN53	GN53
GND53	GND53

FOR PR 40 TO PR 160

Cat. No.



GN63



MN

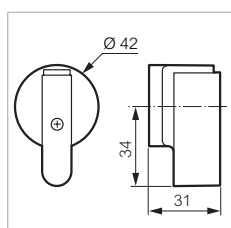
For □ 6 shaft

Medium handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

Price list code

MN60	MN60
MND60	MND60
MN61	MN61
MND61	MND61
MN63	MN63
MND63	MND63



GN

Large handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

GN60	GN60
GND60	GND60
GN61	GN61
GND61	GND61
GN63	GN63
GND63	GND63

Separate cam switches

▶ LEVERS

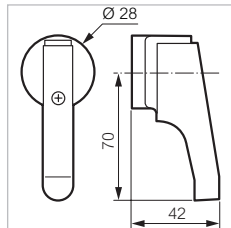
LEVERS

For PR 12 to PR 40

Cat. No.



PC50



PC

For □ 5 shaft

Small levers

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

Price list code

PC50	PC50
PCD50	PCD50
PC51	PC51
PCD51	PCD51
PC53	PC53
PCD53	PCD53

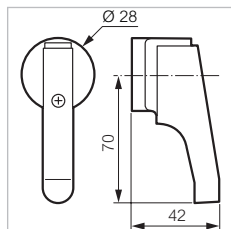
LEVERS

For PR 40 to PR 160

Cat. No.



PC60



PC

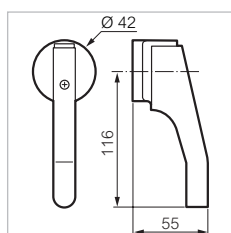
For □ 6 shaft

Small levers

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

Price list code

PC60	PC60
PCD60	PCD60
PC61	PC61
PCD61	PCD61
PC63	PC63
PCD63	PCD63



GC

Large levers

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

GC60	GC60
GCD60	GCD60
GC61	GC61
GCD61	GCD61
GC63	GC63
GCD63	GCD63

Separate cam switches

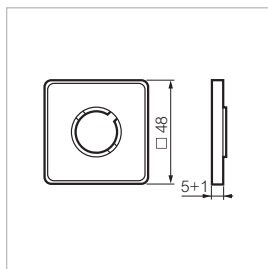
Standard engraving (p. 276)

► PLATES

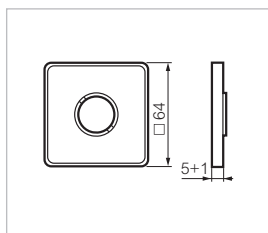
Cat. No.



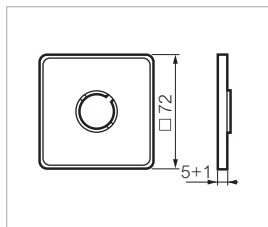
WE70000



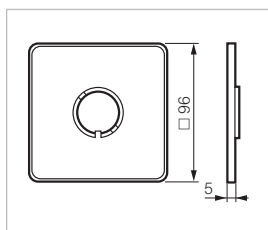
□ 48



□ 64



□ 72



□ 96

Fit onto frame and onto one-hole mounting ϕ 22 head (except □ 96)

□ 48

- Aluminium
- Red
- Black
- Yellow
- Transparent

- Aluminium - with engraving
- Red - with engraving
- Black - with engraving
- Yellow - with engraving
- Transparent - with engraving

□ 64

- Aluminium
- Red
- Black
- Yellow
- Transparent

- Aluminium - with engraving
- Red - with engraving
- Black - with engraving
- Yellow - with engraving
- Transparent - with engraving

□ 72

- Aluminium
- Red
- Black
- Yellow
- Transparent

- Aluminium - with engraving
- Red - with engraving
- Black - with engraving
- Yellow - with engraving
- Transparent - with engraving

□ 96

- Aluminium
- Red
- Black
- Yellow

- Aluminium - with engraving
- Red - with engraving
- Black - with engraving
- Yellow - with engraving

Price list code

WE40	WE40
WE41	WE41
WE43	WE43
WE45	WE45
WE47	WE47
WE40000	WE40000
WE41000	WE41000
WE43000	WE43000
WE45000	WE45000
WE47000	WE47000
WE60	WE60
WE61	WE61
WE63	WE63
WE65	WE65
WE67	WE67
WE60000	WE60000
WE61000	WE61000
WE63000	WE63000
WE65000	WE65000
WE67000	WE67000
WE70	WE70
WE71	WE71
WE73	WE73
WE75	WE75
WE77	WE77
WE70000	WE70000
WE71000	WE71000
WE73000	WE73000
WE75000	WE75000
WE77000	WE77000
WE90	WE90
WE91	WE91
WE93	WE93
WE95	WE95
WE90000	WE90000
WE91000	WE91000
WE93000	WE93000
WE95000	WE95000

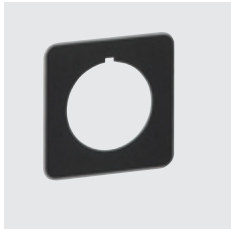
For version with engraving see form (p. 277)

Separate cam switches

Standard engraving (p. 276)

▶ PLATES, DUTY LABELS AND FRAMES

PLATES Cat. No.



UF36

For single hole mounting \varnothing 30
Aluminium legend

48

- Black plate
- Black plate - with engraving

Price list code

UF36	UF36
UF36000	UF36000

64

- Black plate
- Black plate - with engraving

UF38	UF38
UF38000	UF38000

DUTY LABELS Cat. No.



Q072

To be used with frame

48

64

72

Transparent insert
(only for Qo48)

Aluminium insert
(only for Qo48)

Price list code

Q048	Q048
Q064	Q064
Q072	Q072

IF7	IF7
-----	-----

IF9	IF9
-----	-----

FRAMES Cat. No.



CQ64

Frame

48

64

72

96

Price list code

CQ48	CQ48
CQ64	CQ64
CQ72	CQ72
CQ96	CQ96

Separate cam switches

Standard engraving (p. 276)
Dimensions (p. 255)

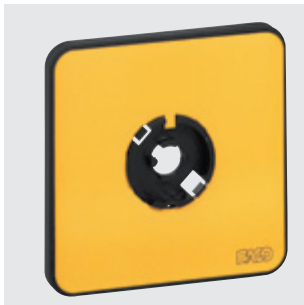
▶ PLATES + FRAMES

Plate + frame

Cat. No.



Q61



Q95

□ 48

- Aluminium
- Red
- Black
- Yellow

Price list code

Q48	Q48
Q41	Q41
Q43	Q43
Q45	Q45

□ 64

- Aluminium
- Red
- Black
- Yellow

Q64	Q64
Q61	Q61
Q63	Q63
Q65	Q65

□ 72

- Aluminium
- Red
- Black
- Yellow

Q72	Q72
Q71	Q71
Q73	Q73
Q75	Q75

□ 96

- Aluminium
- Red
- Black
- Yellow

Q96	Q96
Q91	Q91
Q93	Q93
Q95	Q95

Plate + frame + duty label

Cat. No.



Q720

With aluminium duty label

□ 48

- Aluminium
- Red
- Black
- Yellow

Price list code

Q480	Q480
Q410	Q410
Q430	Q430
Q450	Q450

□ 64

- Aluminium
- Red
- Black
- Yellow

Q640	Q640
Q610	Q610
Q630	Q630
Q650	Q650

□ 72

- Aluminium
- Red
- Black
- Yellow

Q720	Q720
Q710	Q710
Q730	Q730
Q750	Q750

Separate cam switches

▶ PLATE + FRAME + DUTY LABEL

Ø 22 MOUNTING

Frame + legend plate

Cat. No.



N480

With aluminium duty label
 Plate and frame for single hole mounting Ø 22 presentation
 Max. panel thickness: 1.5 mm

Price list code

- 48
- Aluminium

N480

N480

▶ TERMINAL COVERS

Cat. No.



CB4

For PR 12 to PR 160
 Insulating material for switch with 4 contacts max.
 Transparent material for PR 12 to PR 63
 Opaque material for PR 125-160

With rear mounting the terminal cover is fixed in S mode (p. 244) with:

- for PR 12 to PR 26: 2 screws
- for PR 40 to PR 160: 2 screws

With front mounting, the terminal cover is fixed in E mode (p. 240) with:

- for PR 12: 2 screws supplied
- for PR 17 to PR 63: 2 special nuts supplied
- for PR 125 and PR 160: 2 H4 nuts supplied

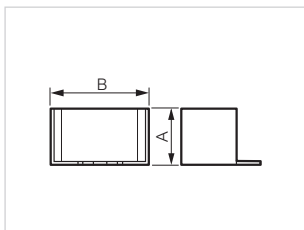
Price list code

PR 12	CB4N	CB4
PR 17	CB3D	CB3
PR 21	CB3F	CB3
PR 26	CB3E	CB3
PR 40	CB5H	CB5
PR 63	CB5I	CB5
PR 125-160	CB6L	CB6

Terminal covers

PR 40-63	CB8	CB8
----------	-----	-----

Pair of terminal covers in insulating material providing IP 20 protection of 2 electrical contacts located on 1 coil
 (provide the same number of pairs of terminal covers as coils)
 Clip into place after electrical connection of the terminals



Separate cam switches

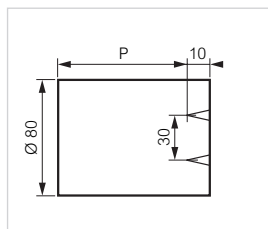
► REAR PROTECTIVE SHROUD

Cat. No.

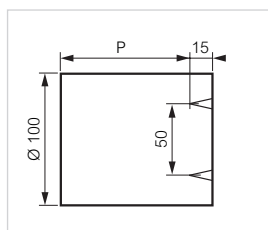


CA41N *

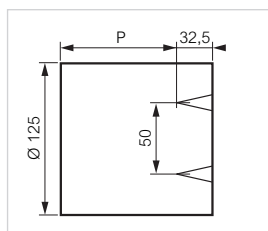
* Length of shroud to be stated when ordering the cam switch only



PR 12



PR 17 to PR 26



PR 40 to PR 63

For PR 12 to PR 63

Composition:

- Grey insulating body
- Transparent insulating cover
- IP 40 - protection against direct finger contact
- IP 55 - protection against splashing water

PR 12 - the shroud fits on 1 standard type E switch

PR 17 to PR 63 - the shroud must be specified when ordering the switch (rear mounting on a special plate)

Price list code

PR 12 - 1 to 12 contacts

- IP 40
- IP 55

CA41N	CA41N
CAE41N	CAE41N

PR 12 - 13 to 24 contacts

- IP 40
- IP 55

CA42N	CA42N
CAE42N	CAE42N

PR 17-21 -1 to 12 contacts

- IP 40
- IP 55

CA10D	CA10D
CAE10D	CAE10D

PR 17-21 - 13 to 24 contacts

- IP 40
- IP 55

CA11D	CA11D
CAE11D	CAE11D

PR 26 - 1 to 12 contacts

- IP 40
- IP 55

CA20F	CA20F
CAE20F	CAE20F

PR 26 -13 to 24 contacts

- IP 40
- IP 55

CA21F	CA21F
CAE21F	CAE21F

PR 40-63 -1 to 12 contacts

- IP 40
- IP 55

CA30I	CA30I
CAE30I	CAE30I

PR 40-63 - 13 to 24 contacts

- IP 40
- IP 55

CA31I	CA31I
CAE31I	CAE31I

Plastic cable gland

- Pg 16 for PR 12 to PR 21
- Pg 21 for PR 26
- Pg 29 for PR 40-63

CM14P	CM14P
CM18P	CM18P
CM24P	CM24P

Number of contacts	Depth (P)					
	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63
1-2	42	45	45	48	74	74
3-4	52	57	57	63	94	94
5-6	62	69	69	78	114	114
7-8	72	81	81	93	134	134
9-10	82	93	93	108	154	154
11-12	92	105	105	123	174	174
13-14	128	117	117	138		
15-16	138	129	129	153		
17-18	148	141	141	168		
19-20	158	153	153	183		
21-22	168	165	165	198		
23-24	178	177	177	213		

Separate cam switches

To order engravings, fill in the form (p. 277)
 To price a switch with customised engraving, please contact us

▶ ENGRAVING

STANDARD ENGRAVING

These are engravings according to switching angle (as illustrated plates on p. 206)
 These standard engravings are not invoiced, the charge is included in the price for the plate or duty label

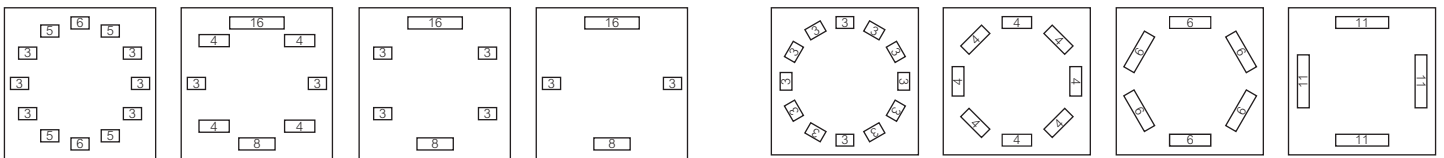
CUSTOMISED ENGRAVING

These are all the alphanumeric engravings (excluding logos, drawings, symbols) which are defined by the following parameters

- For square legend plates: type WE40 to WE95 (p. 271)
- type UF36, UF38 (p. 274)
- For square legend plates: type Q41 to Q96 (p. 271)



- Maximum number of alphanumeric characters per position:



- Character height:
 48 : 3 mm ; 64 : 4 mm ; 72 : 4.5 mm ; 96 : 6 mm
 The engraving is laser-etched or silk-screen printed according to type

- Colour of engraving:
 Black on aluminium and yellow plate
 White on red and black plate

For duty labels: type Q048, Q064 and Q072 (p. 272)

- Maximum number of characters:
 per line: 13
 Maximum number of lines: 2

- Character height
 48 : 3 mm ; 64 : 4 mm ; 72 : 4.5 mm

- Colour of engraving:
 Black on aluminium plate

Special engravings:

These are engravings not covered by the technical parameters used for creating standard engravings and which therefore require a special execution.

This applies to all alphanumeric engravings outside the limits defined above, and also logos, drawings or symbols



Request form for specific cam switch

Fill in one form for each type of switch

▶ APPLICATION

- Load switching
 - resistive electromagnetic

Rated voltage AC/DC

Rated current A

- Control of motors
- Starting/Switching off a running motor

- Reverse direction of rotation
- Motor rating A/CV/kW

▶ DIAGRAM

(Fill in the grid below using the appropriate symbols)

- Closed contact
- Closed contact, 2 positions without cut-off
- Overlapping: second contact closes before first contact opens (not possible with 30° switching angle)
- Impulse contact, closes momentarily when switching from one position to next
- Spring return

Contact Nos.	Position No.												Terminals connection + links
	1	2	3	4	5	6	7	8	9	10	11	12	
1-2													○ 1 3 ○
3-4													○ 2 4 ○
5-6													○ 5 7 ○
7-8													○ 6 8 ○
9-10													○ 9 11 ○
11-12													○ 10 12 ○
13-14													○ 13 15 ○
15-16													○ 14 16 ○
17-18													○ 17 19 ○
19-20													○ 18 20 ○
21-22													○ 21 23 ○
23-24													○ 22 24 ○
25-26													○ 25 27 ○
27-28													○ 26 28 ○
29-30													○ 29 31 ○
31-32													○ 30 32 ○
33-34													○ 33 35 ○
35-36													○ 34 36 ○
37-38													○ 37 39 ○
39-40													○ 38 40 ○
41-42													○ 41 43 ○
43-44													○ 42 44 ○
45-46													○ 45 47 ○
47-48													○ 46 48 ○

▶ SWITCHING ANGLE

- 90° 60° 45° 30°
(indicate positions in boxes)
- Blocking-off between and position
- One-way rotation: right left

▶ MOUNTING

- Front One-hole
- Rear DIN rail
- Enclosure

▶ STANDARD PRESENTATION

- Handle: small medium large
- Lever: small large
Colour: grey black red
- Selector switch style handle
- With key
Choice of key: 455 1424 A other.....

▶ LEGEND PLATE AND ENGRAVING

- Choice of legend plate:
- 48 64 72 96
 - Alu Black Red Yellow

▶ SWITCHING ANGLE

- Engraving: (use opposite box to specify your engravings)
 - linear
 - polygonal
- Duty label
(2 x 13 characters) :
.....
.....

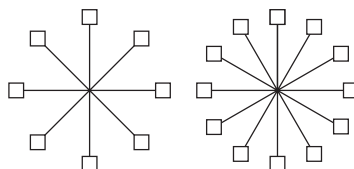
▶ PADLOCKABLE PRESENTATION

- Colour: yellow/red grey
Size: 48 72 96

▶ OPTIONS

- Foolproof handle
- IP rating: IP 40 (standard) IP 55 IP 65
- Terminal covers
- Tropicalised version

▶ MARKING OF POSITIONS



YOUR DETAILS

Company:

.....

.....

Name and surname:

.....

Address:

.....

E-mail :

Tel:

Fax:

COMMENTS

YOUR ENGRAVINGS

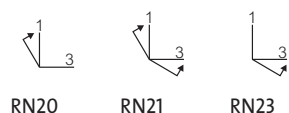
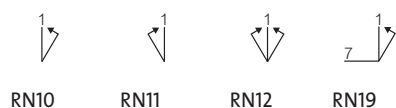
Separate cam switches

Please specify the spring return on the form (p. 277)

▶ AUTOMATIC SPRING RETURN

REDUCED TYPE RN

Cat. No.



For PR 12
This device makes it possible to incorporate spring returns without extra charge and without increasing switch dimension
Number of spring return contacts per position: max. 2

Price list code

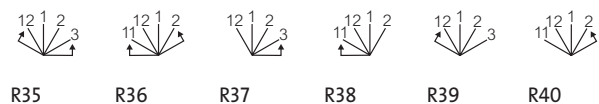
PR 12	-	RNxx ⁽¹⁾
-------	---	---------------------

(1) Complete according to spring return chosen opposite

NORMAL TYPE R

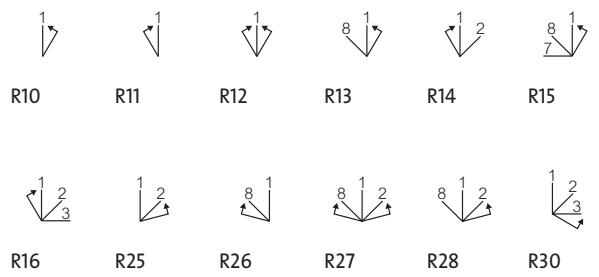
Cat. No.

30°



For PR 12 to PR 63
This device makes it possible to incorporate spring returns without increasing switch dimensions
The maximum number of contacts per spring return position varies according to the rating
The spring return positions are always at 30°
The switching angle is at 30°-45°-90° (for PR 12 to PR 26)
The switching angle is at 45°-90° (for PR 40 and PR 63)

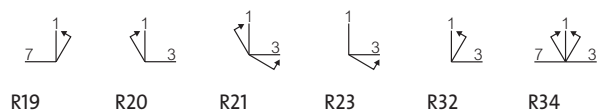
45°



Price list code

PR 12 (4 spring return contacts)	Y652	Rxx ⁽¹⁾
PR 17 (4 spring return contacts)	Y639	Rxx ⁽¹⁾
PR 21 (4 spring return contacts)	Y639	Rxx ⁽¹⁾
PR 26 (4 spring return contacts)	Y639	Rxx ⁽¹⁾
PR 40 (2 spring return contacts)	Y640	Rxx ⁽¹⁾
PR 63 (2 spring return contacts)	Y640	Rxx ⁽¹⁾

90°



(1) Complete according to spring return chosen opposite

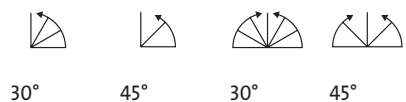
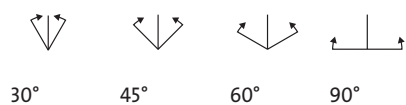
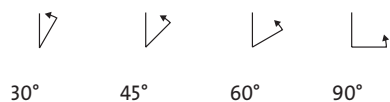
Separate cam switches

Please specify the spring return on the form (p. 277)

► AUTOMATIC SPRING RETURN (CONTINUED)

SPECIAL REINFORCED TYPE RS

Cat. No.



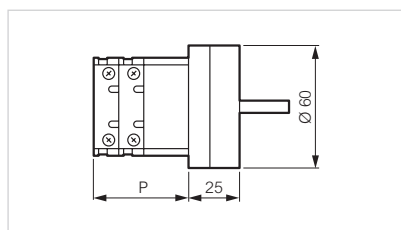
For PR 12 to PR 26
For E or S mounting
Modified sizing
Enables greater number of spring return contacts per position than with standard "R" spring return
Spring returns possible with pass-through contact

Price list code

PR 12 to PR 26

Y626

RS

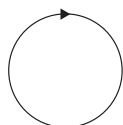


E and S mounting methods (see p. 245)

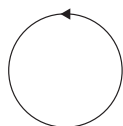
► MISCELLANEOUS VERSIONS

ONE-WAY ROTATION (SRO)

Cat. No.



SRO to the right



SRO to the left

For PR 12 to PR 160
This device makes it impossible to turn the handle in the opposite direction to the one stipulated
Available for switching angles 90°, 60° and 45°
No change to switch dimensions

Price list code

PR 12	Y649	(1)
PR 17 to PR 26	Y642	(1)
PR 40 to PR 160	Y643	(1)

(1) No reference, write "direction of rotation to xxx" in the designation

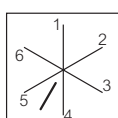
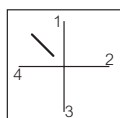
Separate cam switches

► MISCELLANEOUS VERSIONS (CONTINUED)

BLOCKING-OFF BETWEEN 2 POSITIONS

Cat. No.

Examples



For PR 12 to PR 160

This device prevents the switch being turned between 2 consecutive positions.

Indicate which positions (see form on p. 277)

Available for switching angles 90° and 60°

No change to switch dimensions

Not compatible with one-way rotation device (SRO)

	Price list code	
PR 12	-	(1)
PR 17 to PR 26	Y634	(1)
PR 40 to PR 160	Y635	(1)

(1) No reference, write “blocking-off between X and X” in the designation

TROPICALISED VERSION

Cat. No.

For PR 12 to PR 160

(standard on the PR 12)

The cost of this version is calculated

as a fixed charge per switch

and a variable extra charge

(multiplied by the number of contacts)

	Price list code	
PR 12	-	-
PR 17	Y 562 + (Y563 x no. of contacts)	(1)
PR 21	Y 564 + (Y565 x no. of contacts)	(1)
PR 26	Y 566 + (Y567 x no. of contacts)	(1)
PR 40	Y 570 + (Y571 x no. of contacts)	(1)
PR 63	Y 572 + (Y573 x no. of contacts)	(1)
PR 125	Y 578 + (Y579 x no. of contacts)	(1)
PR 160	Y 580 + (Y581 x no. of contacts)	(1)

(1) No reference, write “tropicalised” in the designation

FASTON TERMINALS

Cat. No.

For PR 12 to PR 26

Terminals 6.35 (and/or 2 x 2.8 for PR 12)

Multiply the extra charge by the number of terminals

	Price list code	
PR 12	Y653 (per terminal)	(1)
PR 17 to PR 26	Y620 (per terminal)	(1)

(1) No reference, write out the text and the terminal positions in full in the designation

Separate cam switches

► MISCELLANEOUS VERSIONS (CONTINUED)

REINFORCED IP RATING

Cat. No.

Standard IP rating - IP 40

Price list code

IP 55

For PR 12	Y651	(1)
For PR 17 to PR 160	Y627	(1)
For PR 40-63 (in BCF enclosure)	Y647	(1)

IP 65

For PR 12 to PR 160	Y632	(1)
For PR 12 (in BPR enclosure)	Y632	(1)
For PR 12 to PR 26 (in BC enclosure)	Y663	(1)
For PR 12 to PR 160 (with padlockable presentation)	Y661	(1)
For PR 12 to PR 160 (clutch drive + frame)	Y662	(1)
For PR 12 (∅ 22 mounting)	Y667	(1)

(1) No reference, write:
"IPxx" in the designation

SPECIAL SHAFTS

Cat. No.

Shaft with foolproof profile

Price list code

For PR 12 (E-EZ mounting) ≤ 12 contacts foolproofed shaft	-	D
For PR 17 to PR 160 and PR 12 (other mounting than those below)	Y613	D

Special dimension shaft

Standard dimension
- PR 12 to PR 26 = 26 mm
- PR 40 to PR 160 = 27 mm

For PR 12 to PR 160	Y617	(1)
---------------------	------	-----

(1) No reference, write:
"shaft dimension xx"
(size of projection in mm)

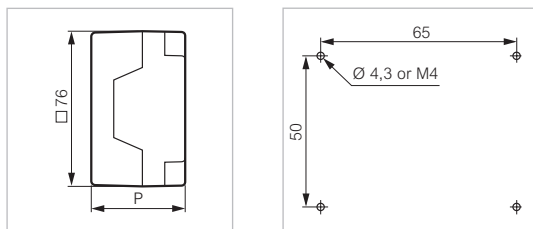
Separate cam switches

▶ EMPTY ENCLOSURES

TYPE BPR

For PR12*

Cat. No.



Technical specifications (p. 260)
Delivered with blank aluminium plate
Possibility to use a padlockable presentation

Price list code

For PR 12 -1-2 contacts
For PR 12 -3-4 contacts

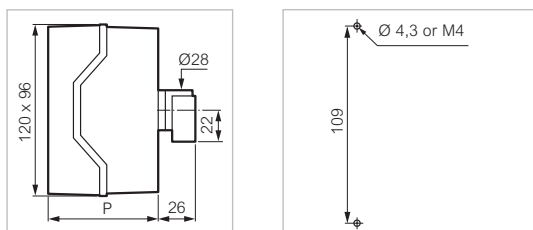
BPR01	BPR01
BPR02	BPR02

P *	Price list code	Contacts
46	BPR01	1-2 CONTACTS
58	BPR02	3-4 CONTACTS

P * = Depth

TYPE BC

Cat. No.



Technical specifications (p. 261)
With a 64 blank aluminium plate and a black handle
(see p. 261 for enclosure customisation)
for PR 12* to PR 26 mounting, bare shaft version

Price list code

For PR 12 -1-2 contacts
For PR 12 -3-6 contacts
For PR 12 -7-10 contacts
For PR 17-21 -1-2 contacts
For PR 17-21 -3-6 contacts
For PR 17-21 -7-10 contacts
For PR 26 -1-2 contacts
For PR 26 -3-4 contacts
For PR 26 -5-6 contacts
For PR 26 -7-8 contacts

BC05Q3	BC05Q3
BC06Q3	BC06Q3
BC07Q3	BC07Q3
BC11Q3	BC11Q3
BC12Q3	BC12Q3
BC13Q3	BC13Q3
BC14Q3	BC14Q3
BC15Q3	BC15Q3
BC16Q3	BC16Q3
BC13Q3	BC13Q3

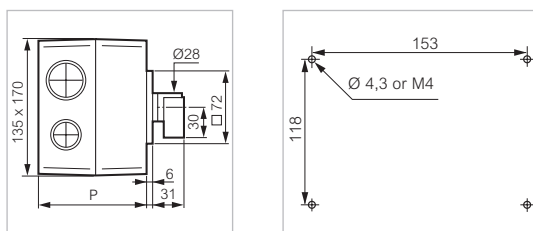
P *	Price list code	Contacts
77	BC01-02-0-06 11-12-14-15	1-6 CONTACTS (1-4 PR26)
101	BC03-04-07 13-16	7-10 CONTACTS (5-8 PR26)

P * = Depth

* Switch version with terminals reversed

TYPE BCF

Cat. No.



For PR40-63
Technical specifications (p. 262)
Delivered with a complete
72-96 plate and frame
or padlockable presentation

Price list code

For PR 40-63 -1-2 contacts
For PR 40-63 -3-4 contacts
For PR 40-63 -5-6 contacts
For PR 40-63 -7-8 contacts

BCF140	BCF140
BCF240	BCF240
BCF340	BCF340
BCF440	BCF440

P *	Price list code	Contacts
107	BCF140-240	1-4 CONTACTS
145	BCF340-440	5-8 CONTACTS

P * = Depth

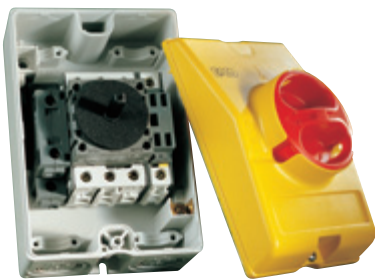
Switch disconnectors

A modular and flexible range



Contact gap
7 mm
(norm >5.5 mm)

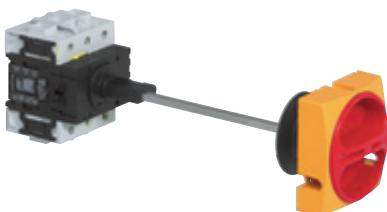
Reversible
terminal feature



► IN ENCLOSURE

- Degree of protection: up to IP 66
- For 25A to 100A size switches (see Ithe (A) p. 306)
- Cable entries with pre-formed knockouts
- Tamper-proof cover with padlockable handle
- Recessed area for optional plate
- A wide choice of associated contact blocks and enclosures versions available

Pages 289 and 295



► WITH CLUTCH DRIVE

- Metal cuttable shafts
- With or without door interlock system
- Short or long metal shaft available

Pages 288 and 293

Complete switch disconnectors 20 A

IP 40 as standard, IP 65 on request

 Characteristics (p. 306)

▶ FRONT MOUNTING

PADLOCKABLE PRESENTATION

Cat. No.



172921

20 A - non-reversible terminals

3P

3P+NC/NO(1)

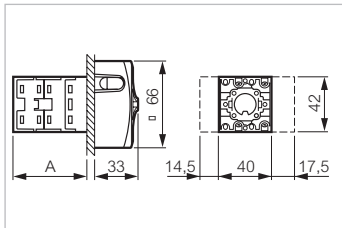
4P

172901

172911

172921

(1) Padlock with \varnothing 6 to 8 mm



Dimensions

A: 46 (3P/4P)

56 (3P+NC/NO)

ACCESSORIES

Cat. No.



172945

IP65 seal kit

For front mounting with screws

172945

Terminal covers

For front mounting with screws

172965

Complete switch disconnectors 25 to 100 A

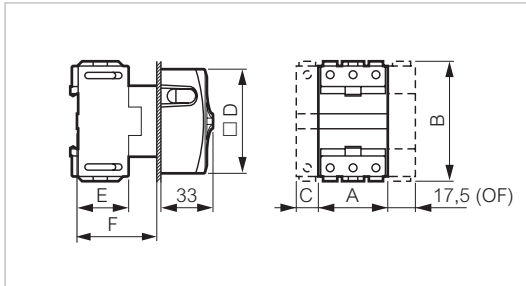
IP 40 as standard, IP 65 on request

 Characteristics (p. 306)

FRONT MOUNTING

PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
 IP 20 "finger safe"
 Double break type load switching
 Red padlockable handle on yellow plate
 Actual position (ON or OFF) clearly visible
 Conform to standards:
 IEC EN 60947-3
 Approved by UL - cUL – Suitable as motor disconnect



172001

Dimensions	
A:	44
B:	75.4
C:	14.5
D:	□ 66
E:	36
F:	50

25 A	
3P	172001
3P+NC/NO (1)	172011
4P neutral on left	172021

32 A	
3P	172101
4P neutral on left	172121



172201

Dimensions	
A:	53.6
B:	85
C:	17.9
D:	□ 66
E:	50.3
F:	60

50 A	
3P	172201
4P neutral on left	172221

63 A	
3P	172301
4P neutral on left	172321



172401

Dimensions	
A:	71.8
B:	93
C:	26.8
D:	□ 86
E:	63.8
F:	70

80 A	
3P	172401
4P neutral on left	172421

100 A	
3P	172501

(1) Padlock: \varnothing 6 to 8 mm

Complete switch disconnectors 25 to 100 A

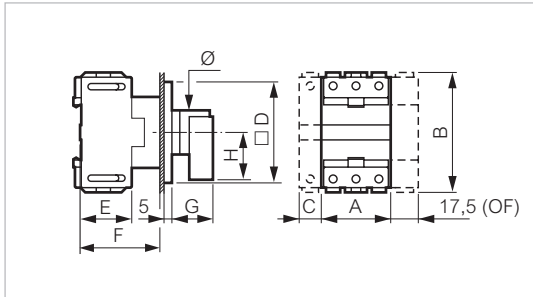
IP 40 as standard, IP 65 on request

 Characteristics (p. 306)

FRONT MOUNTING

WITH PLATE, FRAME AND HANDLE

Cat. No.



Safety switch to disconnect and isolate poles.
 IP 20 "finger safe"
 Double break type load switching
 Red handle on yellow plate
 Actual position (ON or OFF) clearly visible
 Conform to standards:
 IEC EN 60947-3
 Approved by UL - cUL – Suitable as motor disconnect



172002

Dimensions	
A:	44
B:	75.4
C:	14.5
D:	□ 64
E:	36
F:	50
G:	26
H:	22
Ø:	28

25 A

3P

172002

32 A

3P

172102



172202

Dimensions	
A:	53.6
B:	85
C:	17.9
D:	□ 72
E:	50.3
F:	60
G:	26
H:	30
Ø:	28

50 A

3P

172202

63 A

3P

172302



172402

Dimensions	
A:	71.8
B:	93
C:	26.8
D:	□ 96
E:	63.8
F:	70
G:	31
H:	34
Ø:	42

80 A

3P

172402

100 A

3P

172502

Complete switch disconnectors 25 to 100 A

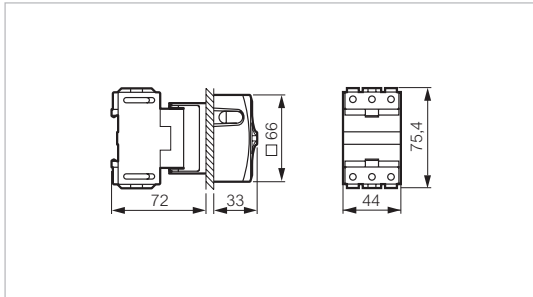
IP 40 as standard, IP 65 on request

 Characteristics (p. 306)

▶ FRONT MOUNTING

PADLOCKABLE PRESENTATION Ø 22 SINGLE-HOLE MOUNTING

Cat. No.



Safety switch to disconnect and isolate poles.
 IP 20 "finger safe"
 Double break type load switching
 Red handle on yellow plate
 Actual position (ON or OFF) clearly visible
 Conform to standards:
 IEC EN 60947-3
 Approved by UL - cUL – Suitable as motor disconnect

25 A

3P

172003

32 A

3P

172103



172003

Complete switch disconnectors 25 to 100 A

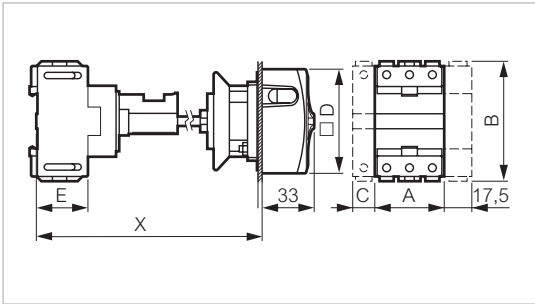
IP 40 as standard, IP 65 on request

 Characteristics (p. 306)

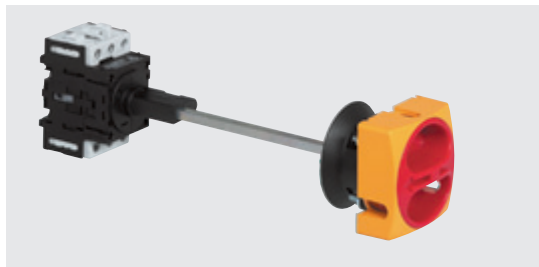
► REAR MOUNTING WITH CLUTCH DRIVE

PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
 IP 20 "finger safe"
 With clutch drive and door interlock
 Double break type load switching
 Red handle on yellow plate
 Actual position (ON or OFF) clearly visible
 Conform to standards:
 IEC EN 60947-3
 Approved by UL - cUL – Suitable as motor disconnect



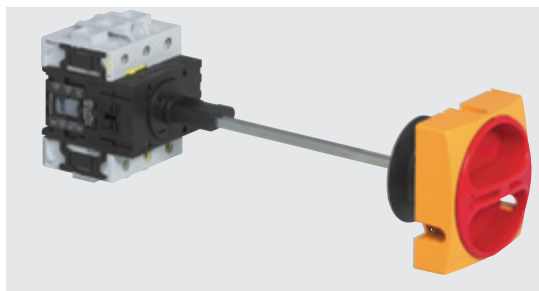
165009

- 25 A**
3P (short shaft) **165009**
- 32A**
3P (short shaft) **165109**

25 and 32 A dimensions	
A:	44
B:	75.4
C:	14.5
D:	□ 66
E:	31.5
X:	125 to 250 (short shaft) 250 to 400 (long shaft)

50 and 63 A dimensions	
A:	53.6
B:	85
C:	17.9
D:	□ 66
E:	42.2
X:	135 to 260 (short shaft) 260 to 410 (long shaft)

- 50 A**
3P (short shaft) **165209**
- 63 A**
3P (short shaft) **165309**



165409

- 80 A**
3P (long shaft) **165409**
- 100 A**
3P (long shaft) **165509**

80 and 100 A dimensions	
A:	71.8
B:	93
C:	26.8
D:	□ 86
E:	52.6
X:	145 to 270 (short shaft) 270 to 420 (long shaft)

Complete switch disconnectors 25 to 100 A

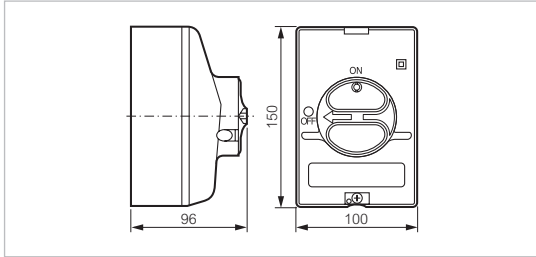
IP 40 as standard, IP 65 on request
and IP 66 on enclosure version with integral handle version

 Characteristics (p. 306)

► ENCLOSURES

INTEGRAL PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 “finger safe”
With clutch drive and door interlock
Double break type load switching
Red handle on yellow plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3



172061

IP 66 - IK 07

20 A

3P	172961
3P+NC/NO ⁽¹⁾	172971
4P	172981

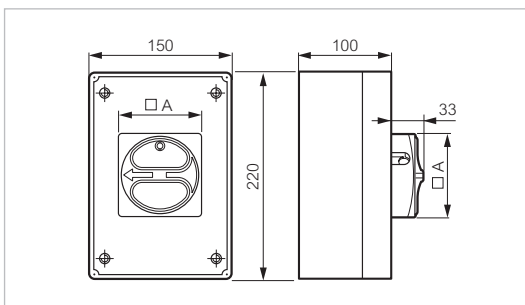
25 A

3P	172061
3P+NC/NO ⁽¹⁾	172071

32 A

3P	172161
----	---------------

PADLOCKABLE PRESENTATION



IP 40 ⁽²⁾

50 A

3P	172261
----	---------------

63 A

3P	172361
----	---------------

80 A

3P	172461
----	---------------

100 A

3P	172561
----	---------------

(1) Padlock: Ø 6 to 8 mm
(2) IP 65 seal kit ref. 172267 (50 to 63 A)
172277 (80 to 100 A)



172261

50 and 63 A dimensions

A: 66

80 and 100 A dimensions

A: 86

Complete switch disconnectors 20 A

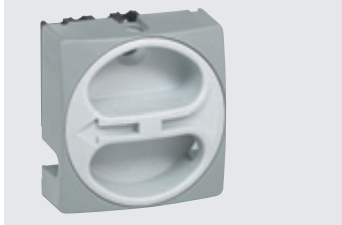
IP 40 as standard, IP 65 on request
Grey presentation

 Characteristics (p. 306)

▶ FRONT MOUNTING

PADLOCKABLE PRESENTATION

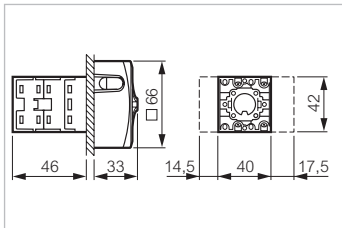
Cat. No.



174901

20 A - non-reversible terminals
3P

174901



ACCESSORIES

Cat. No.



172945

IP 65 seal kit
For front mounting with screws

172945

Terminal covers
For front mounting with screws

172965

Complete switch disconnectors 25 to 100 A

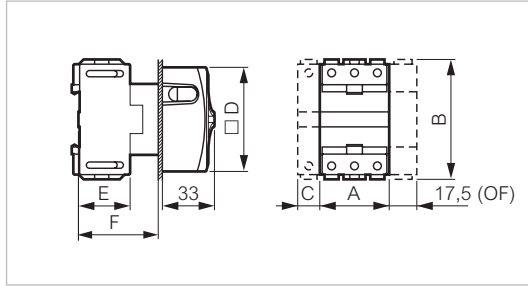
IP 40 as standard, IP 65 on request
Grey presentation

▶ FRONT MOUNTING

 Characteristics (p. 306)

PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 “finger safe”
Double break type load switching
Grey padlockable handle on grey plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
Approved by UL - cUL – Suitable as motor disconnect

25 A

3P

174001



174001

Dimensions

A: 44
B: 75.4
C: 14.5
D: □ 66
E: 36
F: 50

32 A

3P

174101



174301

Dimensions

A: 53.6
B: 85
C: 17.9
D: □ 66
E: 50.3
F: 60

63 A

3P

174301



174401

Dimensions

A: 71.8
B: 93
C: 26.8
D: □ 86
E: 63.8
F: 70

80 A

3P

174401

100 A

3P

174501

(1) Padlock: ø 6 to 8 mm

Complete switch disconnectors 25 to 100 A

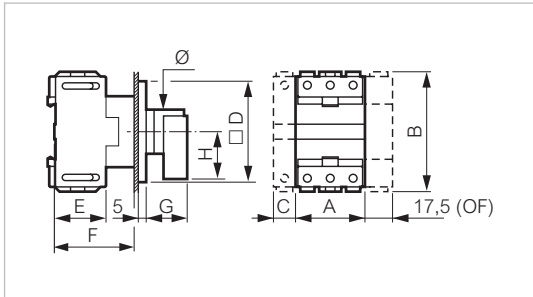
IP 40 as standard, IP 65 on request
Grey presentation

 Characteristics (p. 306)

FRONT MOUNTING

WITH PLATE, FRAME AND HANDLE

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
Double break type load switching
Black handle on aluminium plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
UL - cUL approved – Suitable as motor disconnect

25 A

3P

174002

32 A

3P

174102



Dimensions

A: 44
B: 75.4
C: 14.5
D: □ 64
E: 36
F: 50
G: 26
H: 22
Ø: 28

174002

50 A

3P

174202



Dimensions

A: 53.6
B: 85
C: 17.9
D: □ 72
E: 50.3
F: 60
G: 26
H: 30
Ø: 28

174202

63 A

3P

174302

80 A

3P

174402



Dimensions

A: 71.8
B: 93
C: 26.8
D: □ 96
E: 63.8
F: 70
G: 31
H: 34
Ø: 42

174402

100 A

3P

174502

Complete switch disconnectors 25 to 100 A

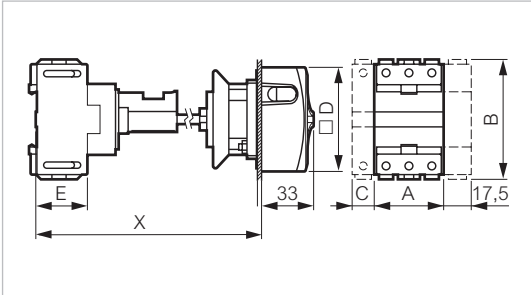
IP 40 as standard, IP 65 on request
Grey presentation

► REAR MOUNTING

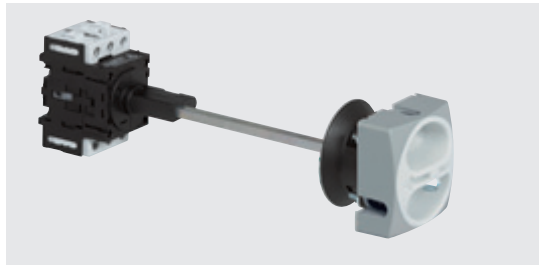
 Characteristics (p. 306)

PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
With clutch drive and door interlock
Double break type load switching
Grey padlockable handle on grey plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
Approved by UL - cUL – Suitable as motor disconnect



165009

25 A
3P (short shaft) **168009**

32A
3P (short shaft) **168109**

25 and 32 A dimensions

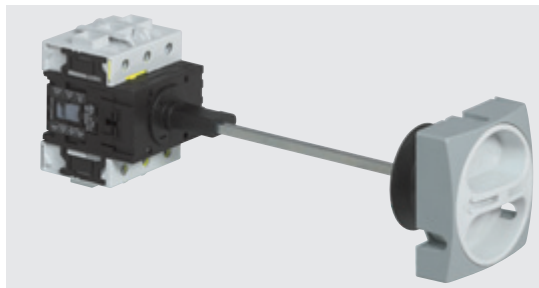
A:	44
B:	75.4
C:	14.5
D:	□ 66
E:	31.5
X:	125 to 250 (short shaft) 250 to 400 (long shaft)

50 and 63 A dimensions

A:	53.6
B:	85
C:	17.9
D:	□ 66
E:	42.2
X:	135 to 260 (short shaft) 260 to 410 (long shaft)

50 A
3P (short shaft) **168209**

63 A
3P (short shaft) **168309**



165409

80 A
3P (long shaft) **168409**

100 A
3P (long shaft) **168509**

80 and 100 A dimensions

A:	71.8
B:	93
C:	26.8
D:	□ 86
E:	42.6
X:	145 to 270 (short shaft) 270 to 420 (long shaft)

Complete switch disconnectors 25 to 100 A

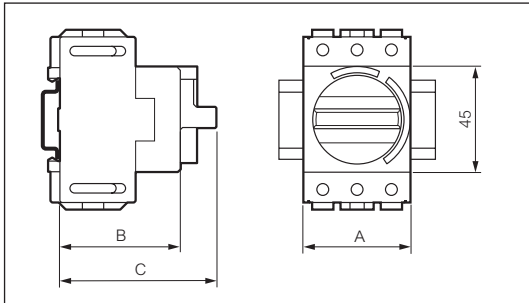
IP 40 as standard, IP 65 on request
Grey presentation

 Characteristics (p. 306)

► REAR MOUNTING

MODULAR IN-PANEL PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
Double break type load switching
Black handle on grey plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
Approved by UL - cUL – Suitable as motor disconnect

25 A

3P

174005

32 A

3P

174105

50 A

3P

174205

63 A

3P

174305

80 A

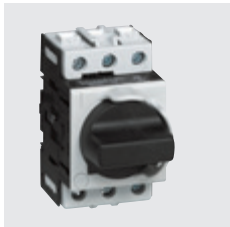
3P

174405

100 A

3P

174505



174005

Dimensions	
A:	44
B:	53
C:	79



174205

Dimensions	
A:	53.6
B:	63
C:	89



174405

Dimensions	
A:	71.8
B:	73
C:	99

Complete switch disconnectors 25 to 100 A

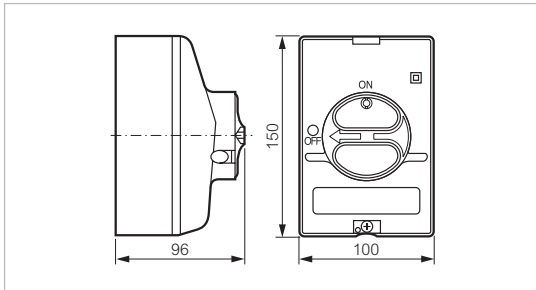
IP 40 as standard, IP 65 on request and
IP66 on enclosure version with integral handle version
Grey presentation

► ENCLOSURES

 Characteristics (p. 306)

INTEGRAL PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 “finger safe”
With clutch drive and door interlock
Double break type load switching
Grey padlockable handle
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3

IP 66 - IK 07

25 A
3P

174061

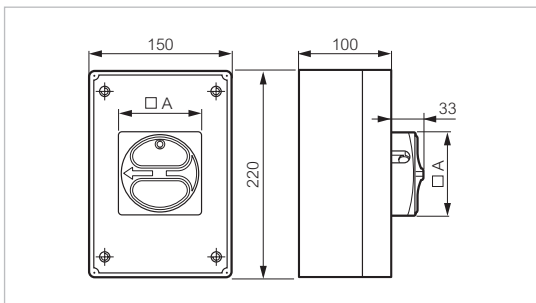
32 A
3P

174161



174061

PADLOCKABLE PRESENTATION



IP 40 (1)

50 A
3P

174261

63 A
3P

174361

80 A
3P

174461

100 A
3P

174561

(1) IP 65 with seal ref. 172267 (50 to 63 A)
172277 (80 to 100 A)



174261

50 and 63 A dimensions

A: □ 66

80 and 100 A dimensions

A: □ 86

Separate switch disconnectors - 25 and 32 A

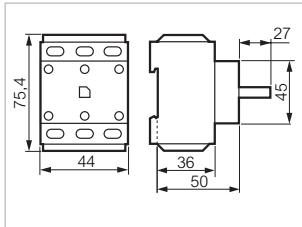
 Characteristics (p. 306)

► BLOCKS

Cat. No.



172000



3-pole switch body without presentation

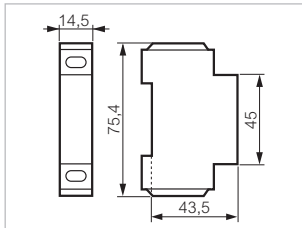
25 A
32 A

172000
172100



172065

172185



Additional pole
(for use in enclosure only)

25 A
32 A

172075
172175

Neutral pole

25 A
32 A

172065
172165

Junction block

⊥ or N

172185

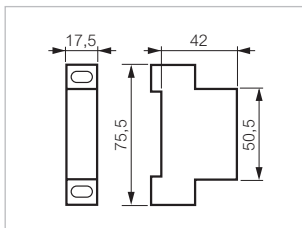
Auxiliary contact

NC/NO

172179



172179

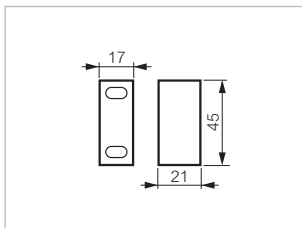


1 pole early break

172195



172195

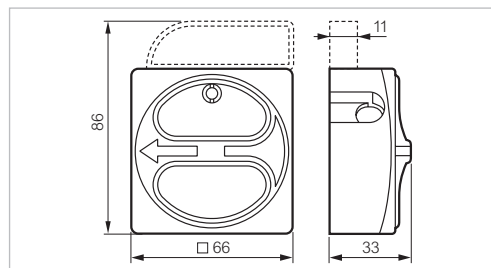


Separate switch disconnectors - 25 and 32 A

► PRESENTATION

 Characteristics (p. 306)

Cat. No.



Padlockable presentation

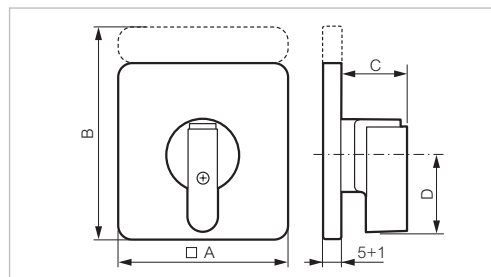
Padlock with $\varnothing 6$ to 8 mm

- 66 - Yellow/Red
- 66 - Grey
- 66 - $\varnothing 22$ single-hole-mounting - Yellow/Red

172601
174601
172603



172601



With plate, frame and handle

- 64 - Yellow/Red
- 48 - $\varnothing 22$ single-hole-mounting - Yellow/Red

172602
172604



172602

Dim. Ref. 172 602

A: 64

B: 80

Dim. ref. 172 604

A: 48

B: 65

Separate switch disconnectors - 25 and 32 A

 Characteristics (p. 306)

▶ EMPTY ENCLOSURES

PADLOCKABLE PRESENTATION

Cat. No.



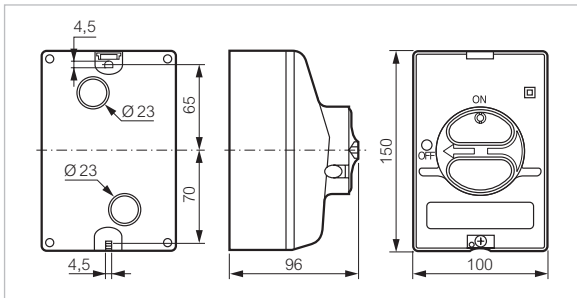
172399

Dimensions 150 x 100 x 96 mm
 Supplied with padlockable handle,
 weatherproof seal and relay terminal
 For 3 and 4-pole switches
 with and without NC/NO

IP66-IK7

Grey base - yellow cover - red handle
 Grey base - grey cover - grey handle

172399
174399

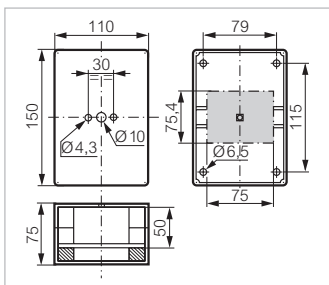


WITHOUT PRESENTATION

Cat. No.



172549



Grey - Up to 4 poles + auxiliary contact
 150 x 110 x 75 mm

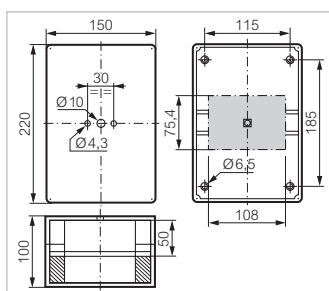
172549

PADLOCKABLE OR WITHOUT PRESENTATION

Cat. No.



172559



Grey - Up to 6 poles + auxiliary contact
 220 x 150 x 100 mm

172559

Separate switch disconnectors - 25 and 32 A

▶ ACCESSORIES

 Characteristics (p. 306)

Cat. No.



172167

Terminal covers

For 3-pole body switch	172167
For additional pole, neutral pole or junction block	172177
For auxiliary contact NC/NO (pair)	172189
For early break auxiliary contact	172199



174569

Connection terminal kit

Terminal connection for ground or neutral	174449
---	---------------

Self-adhesive plates (for enclosures)

Blank	174599
Engraved INTER PRINCIPAL	174559
Engraved MAIN SWITCH	174569



174189

Duty labels

Blank	172629
Engraved INTER PRINCIPAL	172639
Engraved MAIN SWITCH	172649



172177

Kit for clutch drive presentation

Short shaft without door interlock	174189
Long shaft without door interlock	174199
Without shaft and without door interlock	174179

Kit for door interlock

174249

IP 65 seal kit

For front mounting switches and enclosures

Padlockable <input type="checkbox"/> 66	172267
or plate and frame <input type="checkbox"/> 64 or <input type="checkbox"/> 72	
Padlockable <input type="checkbox"/> 86	172277
or plate and frame <input type="checkbox"/> 96	

For rear mounting switches with clutch drive

Padlockable <input type="checkbox"/> 66	174259
or plate and frame <input type="checkbox"/> 64 or <input type="checkbox"/> 72	
Padlockable <input type="checkbox"/> 86	174269
or plate and frame <input type="checkbox"/> 96	

Separate switch disconnectors - 50 and 63 A

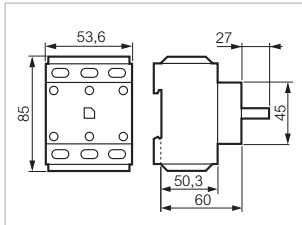
 Characteristics (p. 306)

► BLOCKS

Cat. No.



172300



3-pole body switch without presentation

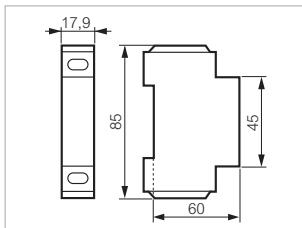
50 A
63 A

172200
172300



172375

172385



Additional pole
(for use in enclosure only)

50 A
63 A

172275
172375

Neutral pole

50 A
63 A

172265
172365

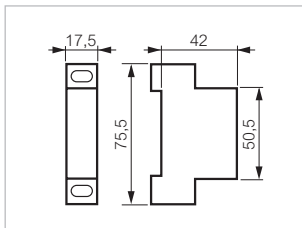
Junction block

⊥ or N

172385



172179



Auxiliary contact

NC/NO

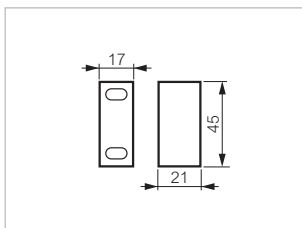
172179

1 pole early break

172395






172395



Separate switch disconnectors - 50 and 63 A

 Characteristics (p. 306)

▶ ACCESSORIES

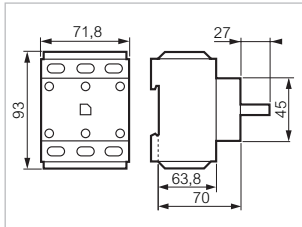
	Cat. No.
 172367	<p>Terminal covers</p> <p>For 3-pole switch 172367 For additional pole, neutral pole or junction block 172377 For NC/NO auxiliary contact (pair) 172189 For early break auxiliary contact 172199</p>
 172649	<p>Duty labels</p> <p>Blank 172629 Engraved INTER PRINCIPAL 172639 Engraved MAIN SWITCH 172649</p>
 172267	<p>Kit for clutch drive presentation</p> <p>Short shaft without door interlock 174189 Long shaft without door interlock 174199 Without shaft and without door interlock 174179</p> <p>kit for door interlock 174249</p>
	<p>IP 65 seal kit</p> <p>For front mounting switches and enclosures</p> <p>Padlockable <input type="checkbox"/> 66 or plate and frame <input type="checkbox"/> 64 or <input type="checkbox"/> 72 172267 Padlockable <input type="checkbox"/> 86 or plate and frame <input type="checkbox"/> 96 172277</p> <p>For rear mounting with clutch drive</p> <p>Padlockable <input type="checkbox"/> 66 or plate and frame <input type="checkbox"/> 64 or <input type="checkbox"/> 72 174259 Padlockable <input type="checkbox"/> 86 or plate and frame <input type="checkbox"/> 96 174269</p>

Separate switch disconnectors - 80 and 100 A

► BLOCKS

 Characteristics (p. 306)

Cat. No.

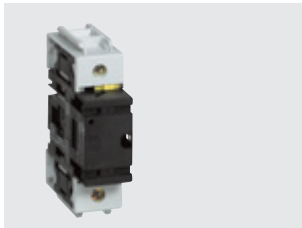


3-pole body switch without presentation

80 A
100 A

172400
172500

172400



Additional pole
(for use in enclosure only)

80 A
100 A

172475
172575

172475

172465

Neutral pole

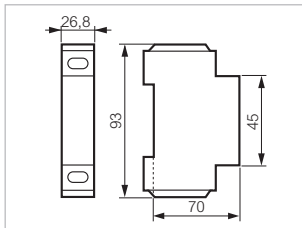
80 A
100 A

172465
172565

Junction block

⊥ or N

172585



172585

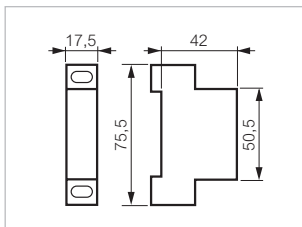
Auxiliary contact

NC/NO

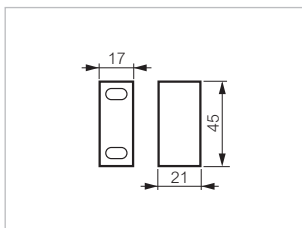
172179

1 pole early break

172595



172179



172595

Separate switch disconnectors - 80 and 100 A

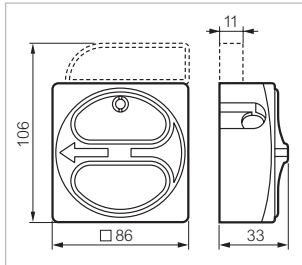
 Characteristics (p. 306)

PRESENTATION

Cat. No.



172621



Padlockable presentation

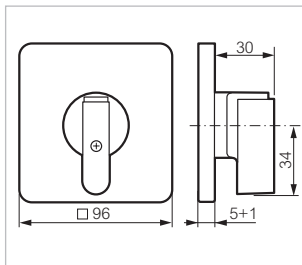
Padlock: \varnothing 6 to 8 mm

- 86 - Yellow/Red
- 86 - Grey

172621
174621



172622



With plate, frame and handle

- 96 - Yellow/Red

172622

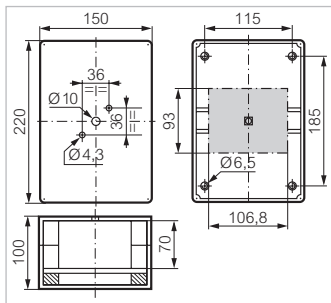
EMPTY ENCLOSURES

WITHOUT PRESENTATION

Cat. No.



172589

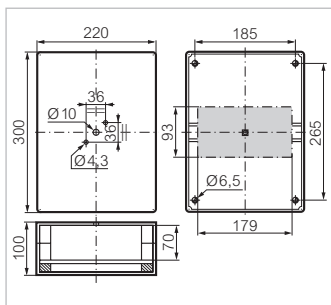


Grey - Up to 3 poles + auxiliary contact
220 x 150 x 100 mm

172589



172599



Grey - Up to 6 poles + auxiliary contact
300 x 200 x 100 mm




172599

Catalogue No. in bold: normally in stock at distribution outlets

Separate switch disconnectors - 80 and 100 A

 Characteristics (p. 306)

▶ ACCESSORIES

	Cat. No.
 <p>172567</p>	<p>Terminal covers</p> <p>For 3-pole body switch 172567 For additional pole, neutral pole or junction block 172577 For NC/NO auxiliary contact (pair) 172189 For early break auxiliary contact 172199</p>
 <p>172649</p>	<p>Duty labels</p> <p>Blank 172629 Engraved INTER PRINCIPAL 172639 Engraved MAIN SWITCH 172649</p>
 <p>172267</p>	<p>Kit for clutch drive presentation</p> <p>Short shaft without door interlock 174189 Long shaft without door interlock 174199 Without shaft and without door interlock 174179</p> <p>kit for door interlock 174249</p> <p>IP 65 seal kit</p> <p>For front mounting switches and enclosures</p> <p>Padlockable □ 66 or plate and frame □ 64 or □ 72 172267 Padlockable □ 86 or plate and frame □ 96 172277</p> <p>For rear mounting with clutch drive</p> <p>Padlockable □ 66 or plate and frame □ 64 or □ 72 174259 Padlockable □ 86 or plate and frame □ 96 174269</p>

Technical characteristics

► GENERAL

Characteristics	20 A	25 A	32 A	50 A	63 A	80 A	100 A
► Rated insulation voltage U_i (V)	690	690	690	690	690	690	690
► Conventional free air thermal current I_{th}							
Uninterrupted rated current I_u (A)	20	25	32	50	63	80	100
► Conventional enclosed thermal current I_{the} (A)	16	20	25	40	50	63	80
► Rated impulse withstand voltage (overvoltage category III - pollution degree 3) U_{imp} (kV)	4	6	6	6	6	6	6
► Rated operating current I_e (A) AC - 21 A/22 A Conform to IEC 60947-3	16	25	32	50	63	80	100
► Rated operating power (kW)							
AC 23 A 3 x 230 V	4	5.5	5.5	15	15	18.5	22
3 x 400 V	7.5	7.5	11	18.5	22	30	37
3 x 500 V	5.5	7.5	11	22	30	37	45
3 x 690 V	4	7.5	11	18.5	22	22	30
AC 3 3 x 230 V	3	4	4	7.5	11	15	18.5
3 x 400 V	4	5.5	7.5	15	18.5	22	30
3 x 500 V	5.5	5.5	7.5	15	22	30	37
3 x 690 V	3	5.5	7.5	15	18.5	18.5	22
► Make - break characteristics (A_{eff}/400 V)							
Rated make capacity	-	710	710	1270	1270	1970	1970
Rated break capacity	-	330	330	800	800	800	800
► Short circuit characteristics							
Rated short term withstand current I_{cw} (A _{eff} /400 V/1 s)	250	350	430	500	760	1100	1500
Rated short circuit make capacity I_{cm} (kA peak/400 V)	-	1	1	1.8	1.8	2.8	2.8
Short circuit current (kA I_{eff} /400 V)	6	10	10	10	10	10	10
with fuse gI/gG (A)	16	25	32	50	63	80	100
► Mechanical life AC 20 (million)	1	0.1	0.1	0.04	0.04	0.04	0.04
► Connections							
Stranded wire + (min/max) cap (mm ²)	0.75/2.5	0.75/6	0.75/6	1.5/16	1.5/16	2.5/35	2.5/35
Solid wire (mm ²)	4	10	10	25	25	50	50
► Storage temperature	-30°C TO +70 °C						
► Operating temperature	- 30°C TO +70 °C						
► Protection rating	rear of panel: IPxxB front of panel IP 40 in standard version (IP 65 on request)						
► Conformity to standards	IEC 60697-3 -EN 60 947-3, UL508, CSA22.2						
► Approvals	UL - cUL (USA - Canada) suitable as motor disconnect. CB certification						
► Climatic resistance	Tropical atmosphere according to IEC 60068-2-30 Cyclic damp heat						

Technical characteristics

▶ AUXILIARY CONTACTS

Characteristics	20 A	25 A	32 A	50 A	63 A	80 A	100 A
▶ Rated insulation voltage U_i (V)	400	400	400	400	400	400	400
▶ Conventional free air thermal current I_{th}							
Continuous rated current I_u (A)	20	10	10	10	10	10	10
▶ Rated operating current I_e (A)							
AC 15							
230 V	6	6	6	6	6	6	6
400 V	-	4	4	4	4	4	4
▶ PROTECTION AGAINST SHORT CIRCUIT BY FUSE gG (A)	16	10	10	10	10	10	10
▶ Max. connection stranded wire (mm ²)	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5

▶ ENCLOSURES

Characteristics	150x100x96	220x150x100	220x150x100	220x150x100	220x150x100	300x200x100
▶ Rating	20, 25 and 32 A 3P to 4P +NC/NO 20 A - 6P	25 and 32 A 6P and 6P +NC/NO	50 and 63 A 3P to 4P +NC/NO	50 and 63 A 6P and 6P +NC/NO	80 and 100 A 3P and 3P +NC/NO	80 et 100 A 4P to 6P +NC/NO
▶ Cable inputs	2 x 2 Pg 16 OR 2 x 2 M25	2 x 2 Pg 21	2 x 2 Pg 21	2 x 2 Pg 29	2 x 2 Pg 29	2 x 2 Pg 21 and 2 x 2 Pg 29
▶ Ø knockouts (mm)	Pg 16: 22.5 ISO M25: 25	28.5	28.5	37.5	37.5	37.5 and 28.5
▶ No. of knockouts (top and bottom)	2	2	2	2	2	4
▶ Panel mount	by 2 screws	by 4 screws				
▶ Base/cover assembly	by 1 screws self-tapping stainless steel	by 4 screws self-tapping stainless steel				by 6 screws self-tapping stainless steel
▶ Switch/base assembly	on 35 mm DIN rail (this rail is notched for positioning the switch)					
▶ Handles mounting	screwing on shaft pre-pierced cover					
▶ Insulation	Class II installed (provided that the correct insulation plugs are used with the enclosure)					
▶ Impact withstand	IK07					
▶ Flameproof	650°C					
▶ Protection rating	IP 66		IP 40 (IP 65 upon request)			
▶ Contact operating diagram						
▶ Switch padlocking	In general: up to 3 padlocks \varnothing 4 to 8 mm Switch with 1 auxiliary contact NC/NO: up to 3 padlocks \varnothing 6 to 8 mm Modular presentation: 1 padlock \varnothing 6 to 8 mm					

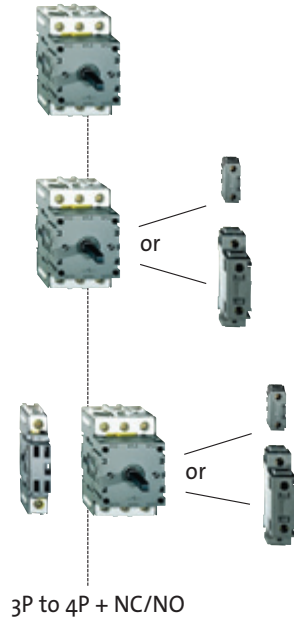
Enclosure selection guide

► 25 AND 32 A

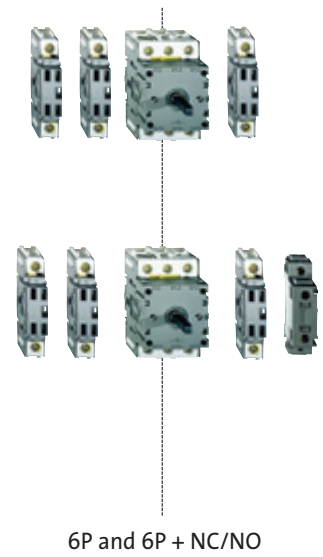


Example: switch disconnector 32 A
Enclosed 4 poles,
padlockable presentation

Enclosure 150 x 100 x 96 mm



Enclosure 220 x 150 x 100 mm

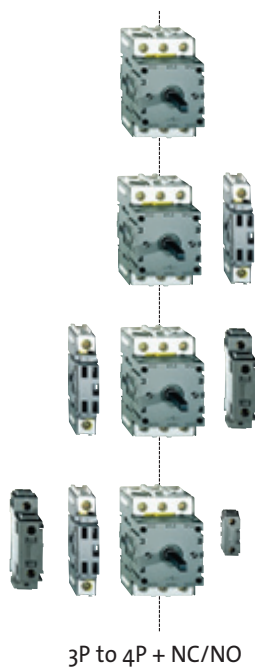


► 50 AND 63 A

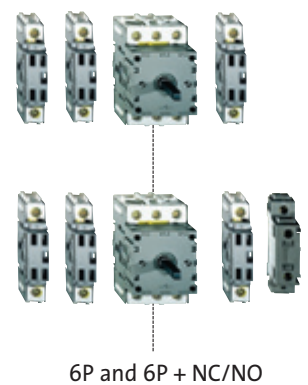


Example: switch disconnector 50 A
Enclosed 6 poles,
Plate, frame and handle presentation

Enclosure 220 x 150 x 100mm



Enclosure 220 x 150 x 100 mm



Enclosure selection guide

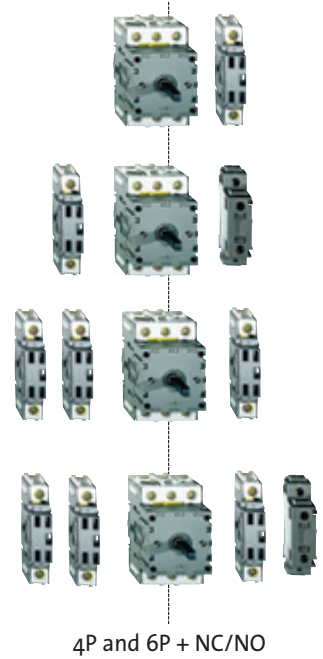
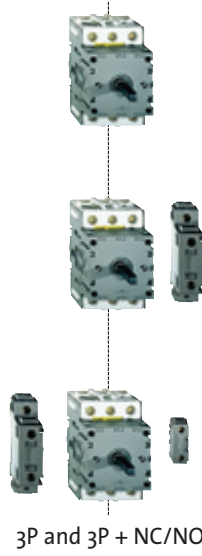
▶ 80 AND 100 A

Enclosure 220 x 150 x 100 mm

Enclosure 300 x 220 x 100 mm



Example: switch disconnecter 100 A
Enclosed 4 poles,
padlockable presentation



LEGEND



basic 3-pole block



additional pole
additional neutral pole
junction block

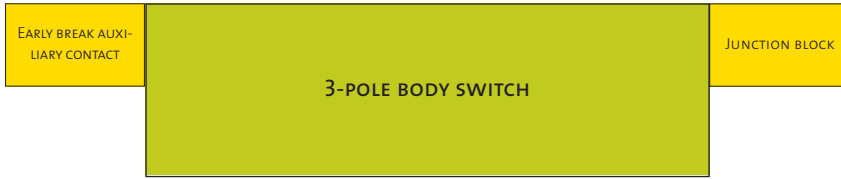


Auxiliary contact NC/NO

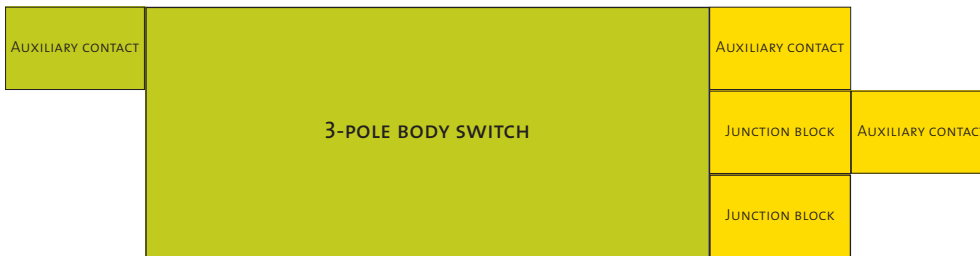


early break auxiliary contact

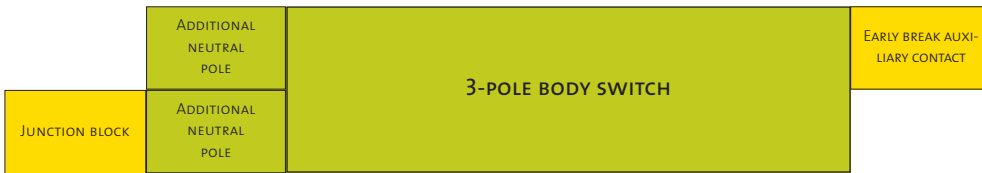
Possible configurations



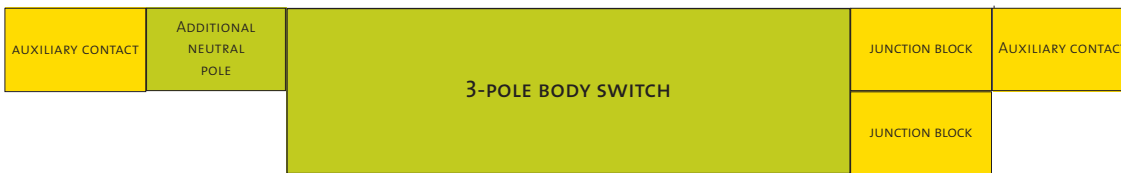
OR



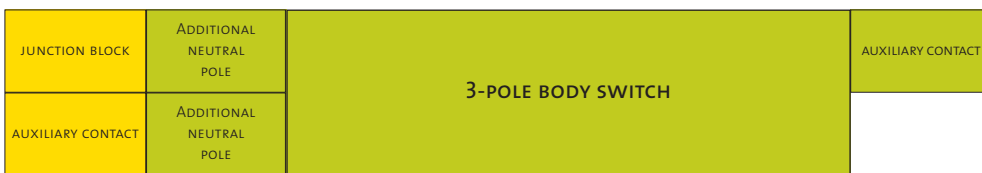
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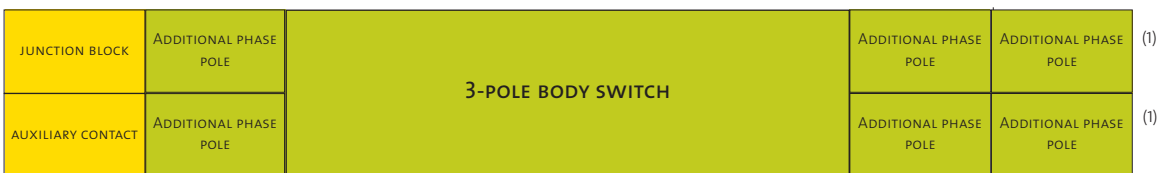
OR



OR



OR



(1) version with enclosure only

- Complete switch disconnecter p. 284 to 295
- Permitted auxiliaries

CROSS REFERENCE LIST PREVIOUS RANGE/NEW RANGE Ø 22

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22P01	33P01	59	233EAGM11	333EAGM11	53	234E11	334E11	48	BX10410	LBX10410	83	C21AH40	L21AH40	37
22P10	33P10	59	233EAGM11D	333EDAGM11	57	234E22	334E22	48	BX10510	LBX10510	83	C21AH40L	L21AH40L	18
230E	331E	65	233EAGM20	333EAGM20	52	234EABH22	334EABH22	53	BX10610	LBX10610	82	C21AH50	L21AH50	37
230E01	331E01	48	233EARH01	333EARH01	52	234EABL22	334EABL22	53	BX11010	LBX11010	84	C21AH50L	L21AH50L	18
230E01D	331E01D	50	233EARH01D	333EDARH01	57	234EABM22	334EABM22	53	BX11101	LBX11101	84	C21AH60	L21AH60	37
230E01R	331E01R	49	233EARH10	333EARH10	51	234EAGH22	334EAGH22	53	BX11301	LBX11301	84	C21AH60L	L21AH60L	18
230E10	331E10	48	233EARH10D	333EDARH10	56	234EAGL22	334EAGL22	53	BX11302	LBX11302	84	C21AK10	L21AK10	38
230E10R	331E10R	49	233EARH11	333EARH11	53	234EAGM22	334EAGM22	53	BX12510	LBX12510	82	C21AK20	L21AK20	38
230EABH	331EABH	51	233EARH11D	333EDARH11	57	234EARH22	334EARH22	53	BX12610	LBX12610	83	C21AK40	L21AK40	38
230EABHD	331EDABH	56	233EARH20	333EARH20	52	234EARL22	334EARL22	53	BX14201	LBX14201	84	C21AK50	L21AK50	38
230EABL	331EABL	51	233EARL01	333EARL01	52	234EARM22	334EARM22	53	BX14202	LBX14202	84	C21AK60	L21AK60	38
230EABLD	331EDABL	56	233EARL01D	333EDARL01	57	234EAWH22	334EAWH22	53	BX15101	LBX15101	84	C21AL10	L21AL10	38
230EABM	331EABM	51	233EARL10	333EARL10	51	234EAWL22	334EAWL22	53	BX15102	LBX15102	84	C21AL20	L21AL20	38
230EABMD	331EDABM	56	233EARL10D	333EDARL10	56	234EAWM22	334EAWM22	53	BX15301	LBX15301	84	C21AL40	L21AL40	38
230EAGH	331EAGH	51	233EARL11	333EARL11	53	234EAYH22	334EAYH22	53	BX15302	LBX15302	84	C21AL50	L21AL50	38
230EAGHD	331EDAGH	56	233EARL11D	333EDARL11	57	234EAYL22	334EAYL22	53	BX17101	LBX17101	83	C21CA01	L21CA01	24
230EAGL	331EAGL	51	233EARL20	333EARL20	52	234EAYM22	334EAYM22	53	BX17102	LBX17102	83	C21CA02	L21CA02	24
230EAGLD	331EDAGL	56	233EARM01	333EARM01	52	235E	335E	65	BX17201	LBX17201	83	C21CA03	L21CA03	24
230EAGM	331EAGM	51	233EARM01D	333EDARM01	57	23E01	33E01	58	BX17301	LBX17301	83	C21CA04	L21CA04	24
230EAGMD	331EDAGM	56	233EARM10	333EARM10	51	23E01C	33E01C	58	BX17302	LBX17302	83	C21CA05	L21CA05	23
230EARH	331EARH	51	233EARM10D	333EDARM10	56	23E01D	33E01D	58	BX20120	LBX20120	85	C21CA06	L21CA06	24
230EARHD	331EDARH	56	233EARM11	333EARM11	53	23E01R	33E01R	58	BX30430	LBX30430	85	C21CB01	L21CB01	25
230EARL	331EARL	51	233EARM11D	333EDARM11	57	23E01Y7	33E01Y7	58	C20DQ01	L22DQ01	26	C21CB02	L21CB02	25
230EARLD	331EDARL	56	233EARM20	333EARM20	52	23E01Y7	33E01Y7	59	C20DR01	L22DR01	27	C21CB03	L21CB03	25
230EARM	331EARM	51	233EAWH01	333EAWH01	52	23E10	33E10	58	C20DR01-G1	L22DR01B	16	C21CB04	L21CB04	25
230EARM D	331EDARM	56	233EAWH01D	333EDAWH01	57	23E10D	33E10D	58	C20E01	L22E01	27	C21CB05	L21CB05	25
230EAWH	331EAWH	51	233EAWH10	333EAWH10	51	23E10R	33E10R	58	C20E01X	L22E01X	16	C21CB06	L21CB06	25
230EAWHD	331EDAWH	56	233EAWH10D	333EDAWH10	56	23E10Y7	33E10Y7	58	C20G001	L22G001	26	C21CH10	L21CH10	40
230EAWL	331EAWL	51	233EAWH11	333EAWH11	53	23E10Y7	33E10Y7	59	C20GR01	L22GR01	27	C21CH20	L21CH20	40
230EAWLD	331EDAWL	56	233EAWH11D	333EDAWH11	57	23E11	33E11	58	C20GR01B	L22GR01B	17	C21CH40	L21CH40	40
230EAWM	331EAWM	51	233EAWH20	333EAWH20	52	23EABH	33EABH	60	C20SA10	L20SE10	45	C21CH50	L21CH50	40
230EAWMD	331EDAWM	56	233EAWL01	333EAWL01	52	23EABH5	33EABH5	62	C20SA10H	L20SE10H	20	C21CH60	L21CH60	40
230EAYH	331EAYH	51	233EAWL01D	333EDAWL01	57	23EABL	33EABL	60	C20SA10L	L20SE10L	20	C21CK10	L21CK10	40
230EAYHD	331EDAYH	56	233EAWL10	333EAWL10	51	23EABL4	33EABL4	60	C20SA10M	L20SE10M	20	C21CK20	L21CK20	40
230EAYL	331EAYL	51	233EAWL10D	333EDAWL10	56	23EABLS	33EABLS	62	C20SA20	L20SE20	45	C21CK40	L21CK40	40
230EAYLD	331EDAYL	56	233EAWL11	333EAWL11	53	23EABM	33EABM	60	C20SA20H	L20SE20H	20	C21CK50	L21CK50	40
230EAYM	331EAYM	51	233EAWL11D	333EDAWL11	57	23EABMS	33EABMS	62	C20SA20L	L20SE20L	20	C21CK60	L21CK60	40
230EAYMD	331EDAYM	56	233EAWL20	333EAWL20	52	23EAGH	33EAGH	60	C20SA20M	L20SE20M	20	C21EC02	L21EC02	25
230ECBH	331ERABH	54	233EAWM01	333EAWM01	52	23EAGH5	33EAGH5	62	C20SA40	L20SE40	45	C21EC04	L21EC04	25
230ECBL	331ERABL	54	233EAWM01D	333EDAWM01	57	23EAGL	33EAGL	60	C20SA40H	L20SE40H	20	C21EM20	L21EM20	41
230ECBM	331ERABM	54	233EAWM10	333EAWM10	51	23EAGL4	33EAGL4	60	C20SA40L	L20SE40L	20	C21EM40	L21EM40	41
230ECBG	331ERAGH	54	233EAWM10D	333EDAWM10	56	23EAGLS	33EAGLS	62	C20SA40M	L20SE40M	20	C21G01E	L21G01E	15
230ECGL	331ERAGL	54	233EAWM11	333EAWM11	53	23EAGM	33EAGM	60	C20SA50	L20SE50	45	C21HA01	L21HA01	35
230ECGM	331ERAGM	54	233EAWM11D	333EDAWM11	57	23EAGMS	33EAGMS	62	C20SA50H	L20SE50H	20	C21HA02	L21HA02	35
230ECRH	331ERARH	54	233EAWM20	333EAWM20	52	23EARH	33EARH	60	C20SA50L	L20SE50L	20	C21HA03	L21HA03	35
230ECRL	331ERARL	54	233EAYH01	333EAYH01	52	23EARHS	33EARHS	62	C20SA50M	L20SE50M	20	C21HA04	L21HA04	35
230ECRM	331ERARM	54	233EAYH01D	333EDAYH01	57	23EARL	33EARL	60	C20SA60	L20SE60	45	C21HA05	L21HA05	35
230ECWH	331ERAWH	54	233EAYH10	333EAYH10	51	23EARL4	33EARL4	60	C20SA60H	L20SE60H	20	C21HA06	L21HA06	35
230ECWL	331ERAWL	54	233EAYH10D	333EDAYH10	56	23EARLS	33EARLS	62	C20SA60L	L20SE60L	20	C21HA31	L21HA31	35
230ECWM	331ERAWM	54	233EAYH11	333EAYH11	53	23EARM	33EARM	60	C20SA60M	L20SE60M	20	C21HA32	L21HA32	35
230ECYH	331ERAYH	54	233EAYH11D	333EDAYH11	57	23EARM5	33EARM5	62	C20SB10	L20SEB10	45	C21HA33	L21HA33	35
230ECYL	331ERAYL	54	233EAYH20	333EAYH20	52	23EAWH	33EAWH	60	C20SB20	L20SEB20	45	C21HA34	L21HA34	35
230ECYM	331ERAYM	54	233EAYL01	333EAYL01	52	23EAWHS	33EAWHS	62	C20SB40	L20SEB40	45	C21HA35	L21HA35	35
231E10D	331ED10	50	233EAYL10	333EAYL10	57	23EAWL	33EAWL	60	C20SB50	L20SEB50	45	C21HA36	L21HA36	35
233E	333E	65	233EAYL10D	333EDAYL10	51	23EAWL4	33EAWL4	60	C20SB60	L20SEB60	45	C21HA01	L21HA01	35
233E01	333E01	48	233EAYL10D	333EDAYL10	56	23EAWLS	33EAWLS	62	C20UA41	L22DU01A	27	C21HB02	L21HB02	35
233E01R	333E01R	49	233EAYL11	333EAYL11	53	23EAWM	33EAWM	60	C20UA42	L22DU01	27	C21HB03	L21HB03	35
233E02	333E02	48	233EAYL11D	333EDAYL11	57	23EAWMS	33EAWMS	62	C21AA00	L21AA00	21	C21HB04	L21HB04	35
233E02R	333E02R	49	233EAYL20	333EAYL20	52	23EAYH	33EAYH	60	C21AA01	L21AA01	21	C21HB05	L21HB05	35
233E03	333E03	48	233EAYM01	333EAYM01	52	23EAYHS	33EAYHS	62	C21AA01B	L21AA01B	12	C21HB06	L21HB06	35
233E03R	333E03R	49	233EAYM01D	333EDAYM01	57	23EAYL	33EAYL	60	C21AA02	L21AA02	21	C21KA01	L21KA01	28
233E10	333E10	48	233EAYM10	333EAYM10	51	23EAYL4	33EAYL4	60	C21AA02A	L21AA02A	12	C21KA02	L21KA02	28
233E10R	333E10R	49	233EAYM10D	333EDAYM10	56	23EAYLS	33EAYLS	62	C21AA03	L21AA03	21	C21KA03	L21KA03	28
233E11	333E11	48	233EAYM11	333EAYM11	53	23EAYM	33EAYM	60	C21AA03A	L21AA03A	12	C21KA08	L21KA08	28
233E11D	333E11D	50	233EAYM11D	333EDAYM11	57	23EAYMS	33EAYMS	62	C21AA04	L21AA04	21	C21KB01	L21KB01	28
233E11R	333E11R	49	233EAYM20	333EAYM20	52	23ECBH	33DABH	61	C21AA04C	L21AA04C	12	C21KB02	L21KB02	28
233E12	333E12	48	233ECBH01	333ECBH01	55	23ECBH	33DABH	61	C21AA05	L21AA05	21	C21KB03	L21KB03	28
233E20	333E20	48	233ECBH10	333ECBH10	54	23ECBL	33DABL	61	C21AA06	L21AA06	21	C21KB08	L21KB08	28
233E20R	333E20R	49	233ECBH11	333ECBH11	55	23ECBL	33DABL	61	C21AA06A	L21AA06A	12	C21KC01	L21KC01	28
233E21	333E21	48	233ECBL01	333ECBL01	55	23ECBM	33DABM	61	C21AA31	L21AA31	21	C21KC02	L21KC02	28
233E30	333E30	48	233ECBL10	333ECBL10	54	23ECBM	33DABM	61	C21AA32	L21AA32	21	C21KC03	L21KC03	28
233E30R	333E30R	49	233ECBL11	333ECBL11	55	23ECGH	33DAGH	61	C21AA33	L21AA33	21	C21KC08	L21KC08	28
233EABH01	333EABH01	52	233ECBM01	333ECBM01	55	23ECGH	33DAGH	61	C21AA34	L21AA34	21	C21KD01	L21KD01	28
233EABH01D	333EDABH01	57	233ECBM10	333ECBM10	54	23ECGL	33DAGL	61	C21AA35	L21AA35	21	C21KD02	L21KD02	28
233EABH10	333EABH10	51	233ECBM11	333ECBM11	55	23ECGL	33DAGL	61	C21AA36	L21AA36	21	C21KD03	L21KD03	28
233EABH10D	333EDABH10	56	233ECGH01	333ECGH01	55	23ECGM	33DAGM	61	C21AA81	L21AA81	21	C21KD08	L21KD08	28
233EABH11	333EABH11	53	233ECGH10	333ECGH10	54	23ECGM	33DAGM	61	C21AA81B	L21AA81B	12	C21KE01	L21KE01	28
233EABH11D	333EDABH11	57	233ECGH11	333ECGH11	55	23ECRH	33DARH	61	C21AA82	L21AA82	21	C21KE02	L21KE02	28
233EABH20	333EABH20	52	233ECGL01	333ECGL01	55	23ECRH	33DARH	61	C21AA82B	L21AA82B	12	C21KE03	L21KE03	28
233EABL01	333EABL01	52	233ECGL10	333ECGL10	54	23ECRL	33DARL	61	C21AA83	L21AA83	21	C21KE03X	L21KE03B	13
233EABL01D	333EDABL01	57	233ECGL11	333ECGL11	55	23ECRL	33DARL							

CROSS REFERENCE LIST PREVIOUS RANGE/NEW RANGE Ø 22

Previous range cat. No.	New range cat. No.	Page	Previous range cat. No.	New range cat. No.	Page	Previous range cat. No.	New range cat. No.	Page	Previous range cat. No.	New range cat. No.	Page	Previous range cat. No.	New range cat. No.	Page
C21KQ02	L21KQ02	30	C22ED01D	L22ED01D	14	S20S820	L20SA32	45	T16GF00	T16GF00	105	UP33	UP33	112
C21KQ03	L21KQ03	30	C22ED01G	L22ED01B	25	S20S820H	L20SA32H	46	T16GG00	T16GG00	105	UP37	UP37	112
C21KR01	L21KR01	30	C22ED02	L22ED02	25	S20S820L	L20SA32L	46	T16GH00	T16GH00	105	UP39	UP39	112
C21KR02	L21KR02	30	C22ED03	L22ED03	25	S20S820M	L20SA32M	46	T16GJ00	T16GJ00	105	V62QH02	L62QH21	38
C21KR03	L21KR03	30	C22ED04	L22ED04	25	S20S830	L20SA33	45	T16GK00	T16GK00	105	V62QH20	L62QH21A	38
C21KS01	L21KS01	30	C22EL10	L22EL10	41	S20S840	L20SA34	45	T16GL00	T16GL00	105	V62QH22	L62QH22V	38
C21KS02	L21KS02	30	C22EM10	L22EM10	41	S20S840H	L20SA34H	46	T16GM00	T16GM00	105	V62QM02	L62QM21	23
C21KS03	L21KS03	30	C22GM01	L22GM01	26	S20S840L	L20SA34L	46	T16GM01	T16GM01	106	V62QM02	L62QM21	39
C21KT01	L21KT01	30	C28DC01	L22DC01	25	S20S840M	L20SA34M	46	T16GP01	T16GP01	106	WA0201	LWA0201	77
C21KT02	L21KT02	30	C28DD01	L22DD01	26	S20S850	L20SA35	45	T16KA01	T16KA01	102	WA0210	LWA0210	116
C21KT03	L21KT03	30	C28DD01A	L22DD01A	15	S20S850H	L20SA35H	46	T16KA03	T16KA03	102	WA0216	LWA0216	76
C21KU01	L21KU01	30	C28DD03	L22DD03	26	S20S850L	L20SA35L	46	T16KA08	T16KA08	102	WA0219	LWA0219	78
C21KU02	L21KU02	30	C28DL10	L22DL10	41	S20S850M	L20SA35M	46	T16KC01	T16KC01	102	WA0223	LWA0223	75
C21KU03	L21KU03	30	C28DM10	L22DM10	41	S20S860	L20SA36	36	T16KC03	T16KC03	102	WA0225	LWA0225	76
C21KV53	L21KV53	44	C28DM20	L22DM20	41	S20S860H	L20SA36H	46	T16KC08	T16KC08	102	WA0226	LWA0226	78
C21KW53	L21KW53	44	C28DM40	L22DM40	41	S20S860L	L20SA36L	46	T16KD01	T16KD01	102	WA0229	LWA0229	77
C21KY53	L21KY53	44	C28DM50	L22DM50	41	S20S860M	L20SA36M	46	T16KD03	T16KD03	102	WA0230	LWA0230	76
C21LA00	L21LA00	33	F24AA01	L23AA01	22	T10	LT10	74	T16KD08	T16KD08	102	WA0234	LWA0234	78
C21LA00G	L21LA00G	13	F24AA02	L23AA02	22	T10S810V	T10S810V	111	T16KF01	T16KF01	102	WA0237	LWA0237	77
C21LB00	L21LB00	33	F24AA03	L23AA03	22	T10S820V	T10S820V	111	T16KF03	T16KF03	102	WA0238	LWA0238	78
C21LC00	L21LC00	33	F24AA04	L23AA04	22	T10S830V	T10S830V	111	T16KF08	T16KF08	102	WA0239	LWA0239	76
C21LD00	L21LD00	33	F24AA05	L23AA05	22	T10S840V	T10S840V	111	T16KG10	T16KG10	110	WA0240	LWA0240	76
C21LF00	L21LF00	33	F24AA31	L23AA31	22	T10S850V	T10S850V	111	T16KG20	T16KG20	110	WA31	LT01	74
C21LG00	L21LG00	33	F24AA32	L23AA32	22	T10S860V	T10S860V	111	T16KG50	T16KG50	110	WA31000	LT71	74
C21LH00	L21LH00	33	F24AA33	L23AA33	22	T12AG01	T12AG01	100	T16KJ10	T16KJ10	110	WA32	LT02	74
C21LK00	L21LK00	33	F24AA34	L23AA34	22	T12AG02	T12AG02	100	T16KJ20	T16KJ20	110	WA32000	LT22	74
C21MA01	L21MA01	29	F24AA35	L23AA35	22	T12AG03	T12AG03	100	T16KJ50	T16KJ50	110	WA33	LT03	74
C21MA02	L21MA02	29	F24AA36	L23AA36	22	T12AG04	T12AG04	100	T16KK10	T16KK10	110	WA33000	LT23	74
C21MA03	L21MA03	29	F24AA81	L23AA81	22	T12AG05	T12AG05	100	T16KK20	T16KK20	110	WA34	LT04	74
C21MA03A	L21MA03A	13	F24AA82	L23AA82	22	T12AG06	T12AG06	100	T16KK50	T16KK50	110	WA34000	LT24	74
C21MA08	L21MA08	29	F24AH10	L23AH10	37	T12AP10	T12AP10	108	T16KM10	T16KM10	110	WA35	LT05	74
C21MB01	L21MB01	29	F24AH20	L23AH20	37	T12AP20	T12AP20	108	T16KM20	T16KM20	110	WA35000	LT25	74
C21MB02	L21MB02	29	F24AH25	L23AH25	37	T12AP30	T12AP30	108	T16KM50	T16KM50	110	WA36	LT06	74
C21MB03	L21MB03	29	F24AH31	L23AH31	37	T12AP40	T12AP40	108	T16KP01	T16KP01	103	WA36000	LT26	74
C21MB08	L21MB08	29	F24AH32	L23AH32	37	T12AP50	T12AP50	108	T16KP03	T16KP03	103	WDF230	LWDF230	77
C21MC01	L21MC01	29	F24AH34	L23AH34	37	T12HA01	T12HA01	107	T16KP08	T16KP08	103	WDN220	LWDN230	65
C21MC02	L21MC02	29	F24AH36	L23AH36	37	T12HA02	T12HA02	107	T16KR01	T16KR01	103	WE0100	LWE0100	65
C21MC03	L21MC03	29	F24AH40	L23AH40	37	T12HA03	T12HA03	107	T16KR03	T16KR03	103	WE0200	LWE0200	65
C21MC08	L21MC08	29	F24AH50	L23AH50	37	T12HA04	T12HA04	107	T16KR08	T16KR08	103	WE0300	LWE0300	65
C21MD01	L21MD01	29	F24AH60	L23AH60	37	T12HA05	T12HA05	107	T16KS01	T16KS01	103	WE16100	LWE16100	65
C21MD02	L21MD02	29	F24CH10	L23CH10	40	T12HA06	T12HA06	107	T16KS03	T16KS03	103	WE16200	LWE16200	65
C21MD03	L21MD03	29	F24CH20	L23CH20	40	T12HG01	T12HG01	107	T16KS08	T16KS08	103	WE16300	LWE16300	65
C21MD03A	L21MD03A	13	F24CH40	L23CH40	40	T12HG02	T12HG02	107	T16LA00	T16LA00	104	WG3	LWG3	69
C21MD08	L21MD08	29	F24CH50	L23CH50	40	T12HG03	T12HG03	107	T16LC00	T16LC00	104	WG31	LWG31	66
C21ME51	L21ME51	43	F24CH60	L23CH60	40	T12HG04	T12HG04	107	T16LD00	T16LD00	104	WG33	LWG33	66
C21ME52	L21ME52	43	I2B	I2B	112	T12HG05	T12HG05	107	T16LF00	T16LF00	104	WG35	LWG35	66
C21ME53	L21ME53	43	I2C	I2C	113	T12HG06	T12HG06	107	T16MA01	T16MA01	102	WG37	LWG37	66
C21MF51	L21MF51	43	IA1	IA1	67	T15S810V	T15S810V	111	T16MA03	T16MA03	102	WG39	LWG39	66
C21MF52	L21MF52	43	IA3	IA3	67	T15S820V	T15S820V	111	T16MA08	T16MA08	102	WP2	LWP2	69
C21MF53	L21MF53	43	IA5	IA5	67	T15S830V	T15S830V	111	T16MC01	T16MC01	102	WP3	LWP3	69
C21MG51	L21MG51	43	IA7	IA7	67	T15S840V	T15S840V	111	T16MC03	T16MC03	102	WP31	LWP31	66
C21MG52	L21MG52	43	IA9	IA9	67	T15S850V	T15S850V	111	T16MC08	T16MC08	102	WP33	LWP33	66
C21MG53	L21MG53	43	IA9081	IA9081	68	T15S860V	T15S860V	111	T16MD01	T16MD01	102	WP35	LWP35	66
C21MH51	L21MH51	43	IA9082	IA9082	68	T16AA01	T16AA01	100	T16MD03	T16MD03	102	WP37	LWP37	66
C21MH52	L21MH52	43	IA9091	IA9091	68	T16AA02	T16AA02	100	T16MD08	T16MD08	102	WP39	LWP39	66
C21MH53	L21MH53	43	IA9191	IA9191	68	T16AA03	T16AA03	100	T16ME10	T16ME10	110	WP4	LWP4	69
C21MJ51	L21MJ51	43	IA9291	IA9291	68	T16AA04	T16AA04	100	T16ME20	T16ME20	110	XXXH	33EFH	64
C21MJ52	L21MJ52	43	IA9301	IA9301	68	T16AA05	T16AA05	100	T16ME50	T16ME50	110	XXXM	33EFM	64
C21MJ53	L21MJ53	43	IA9303	IA9303	68	T16AA06	T16AA06	100	T16MG10	T16MG10	110	XXXRH	33RFH	64
C21MK01	L21MK01	29	IA9304	IA9304	68	T16AA81	T16AA81	100	T16MG20	T16MG20	110	XXXRM	33RFM	64
C21MK02	L21MK02	29	IA9315	IA9315	68	T16AA82	T16AA82	100	T16MG50	T16MG50	110		33PABL	62
C21MK03	L21MK03	29	IA9327	IA9327	68	T16AA83	T16AA83	100	T16MH10	T16MH10	110		33PAGL	62
C21MK08	L21MK08	29	IB1	IB1	112	T16AB01	T16AB01	100	T16MH20	T16MH20	110		33PARL	62
C21ML53	L21ML53	44	IB1	IB1	67	T16AB02	T16AB02	100	T16MH50	T16MH50	110		33PAWL	62
C21MM53	L21MM53	44	IB3	IB3	112	T16AB03	T16AB03	100	T16MJ10	T16MJ10	110		33PAYL	62
C21MN53	L21MN53	44	IB3	IB3	67	T16AB05	T16AB05	100	T16MJ20	T16MJ20	110		L21TA03	32
C21MP53	L21MP53	44	IB5	IB5	67	T16AB06	T16AB06	100	T16MJ50	T16MJ50	110		L21TB03	32
C21MR01	L21MR01	31	IB7	IB7	112	T16AD01	T16AD01	101	T16MK01	T16MK01	102		L21TF03	32
C21MR02	L21MR02	31	IB7	IB7	67	T16AD02	T16AD02	101	T16MK03	T16MK03	102		L21UA03	32
C21MR03	L21MR03	31	IB9	IB9	112	T16AD03	T16AD03	101	T16MK08	T16MK08	102		L21UB03	32
C21MR03A	L21MR03A	13	IB9	IB9	67	T16AD04	T16AD04	101	T16MR01	T16MR01	103		L21UC03	32
C21MR08	L21MR08	31	IB9093	IB9093	68	T16AE01	T16AE01	101	T16MR03	T16MR03	103		L21UD03	32
C21MS01	L21MS01	31	IB9382	IB9382	68	T16AE03	T16AE03	101	T16MR08	T16MR08	103		L21UJ03	32
C21MS02	L21MS02	31	IC1	IC1	113	T16AH10	T16AH10	108	T16MT01	T16MT01	103		L22DU01G	17
C21MS03	L21MS03	31	IC3	IC3	113	T16AH20	T16AH20	108	T16MT03	T16MT03	103		L61BA22	24
C21MS08	L21MS08	31	IC7	IC7	113	T16AH30	T16AH30	108	T16MT08	T16MT08	103		L61BA22B	24
C21MT01	L21MT01	31	IC9	IC9	113	T16AH40	T16AH40	108	T16MU01	T16MU01	103		L61QA21	24
C21MT02	L21MT02	31	M11	M11	63	T16AH50	T16AH50	108	T16MU03	T16MU03	103		L61QA22	24
C21MT03	L21MT03	31	M2A	M2A	36	T16AK10	T16AK10	108	T16MU08	T16MU08	103		L61QA22K	24
C21MT08	L21MT08	31	M2F	M2F	36	T16AK20	T16AK20	108	T16NA00	T16NA00	104		L61QA33C	24
C21MU01	L21MU01	31	M4A	M4A	36	T16AK30	T16AK30	108	T16NC00	T16NC00	104		L61QB21	23
C21MU02	L21MU02	31	M4F	M4F	36	T16AK40	T16AK40	108	T16ND00	T16ND00	104		L61QB21A	12
C21MU03	L21MU03	31	MV2A	MV2A	36	T16AK50	T16AK50	108	T16NK00	T16NK00	104		L61QB21B	23
C21MU03B	L21MU03B	13	MV2F	MV2F	36	T16AM10	T16AM10	108	T20	LT20	74		L61QK21	39
C21MU08	L21MU08	31	MV4A	MV4A	36	T16AM20	T16AM20	108	T40	LT40	74		L61QK21A	39
C21NA00	L21NA00	34	MV4F	MV4F	36	T16AM40	T16AM40	108	T50	LT50	74		L61QK21H	18
C21NB00	L21NB00	34	S20SA10	L20SA10	45	T16AM50	T16AM50	108	T52QA02	T52QA02	101		L61QK21L	18
C21NC00	L21NC00	34	S20SA10H	L20SA10H	46	T16AT01	T16AT01	101	T52QA03	T52QA03	101	</		



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