

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

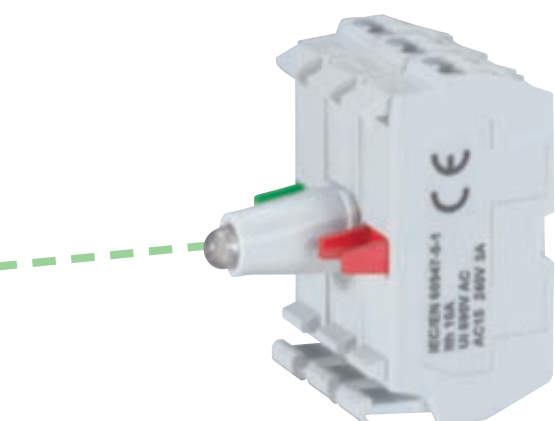
See pages 21 to 46

► 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 page 65



► BLOCK

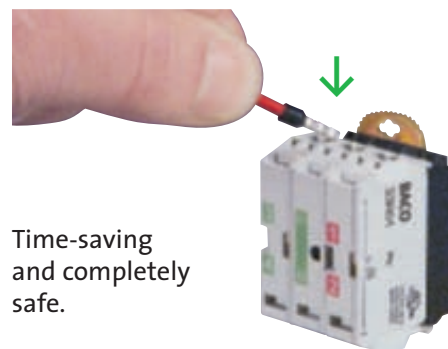
“Imagatively designed to be safe, robust and durable”

- 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.

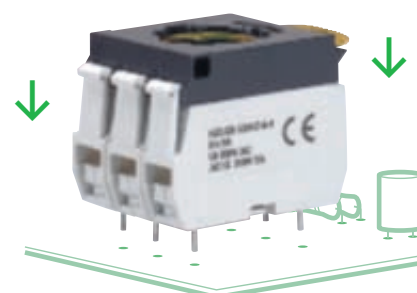
SCREW TERMINALS



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

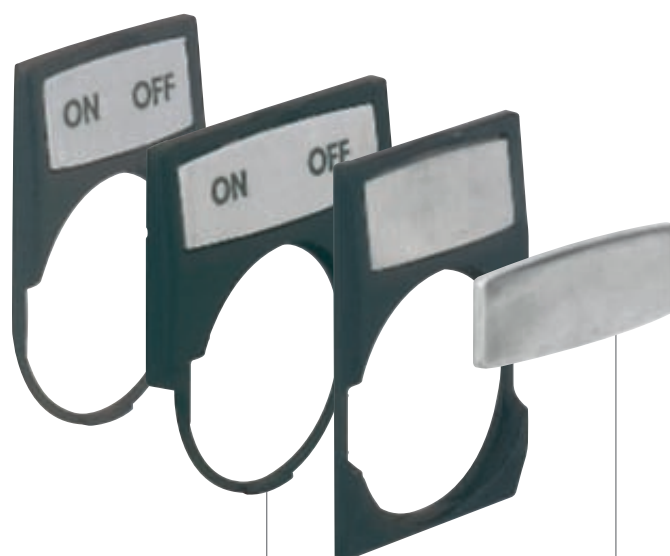
- On all heads, rotation is prevented by a tab which retracts when not required
- Insulating material ensures electrical safety
- Design and shape help avoid build-up of dirt and make the switch easy to clean
- EN 418/ISO 13850 illuminated mushroom head with yellow collar for side-on visual indication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



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

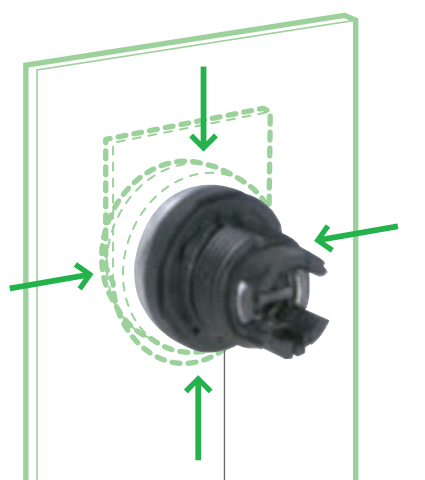
► READY-ASSEMBLED CONTROL STATION

- Innovative design
- 1, 2 or 3 buttons

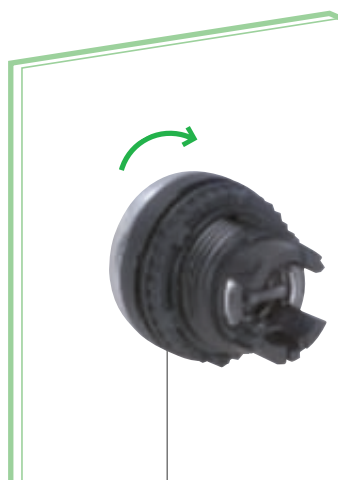
See page 82



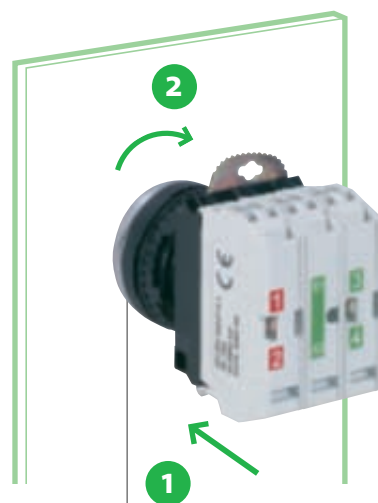
Simplicity, speed, choice!



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



Locking ring
to fix the head

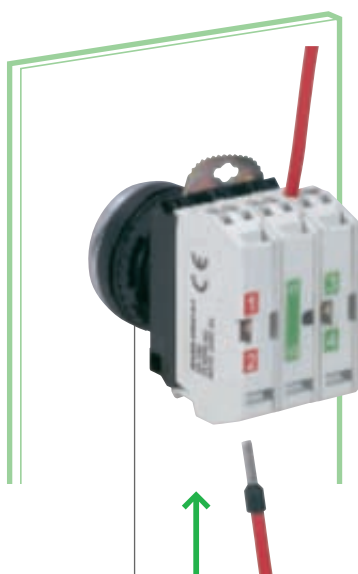


Fixing
Locate block onto head
and lock in place with
rotating metallic latch

► 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



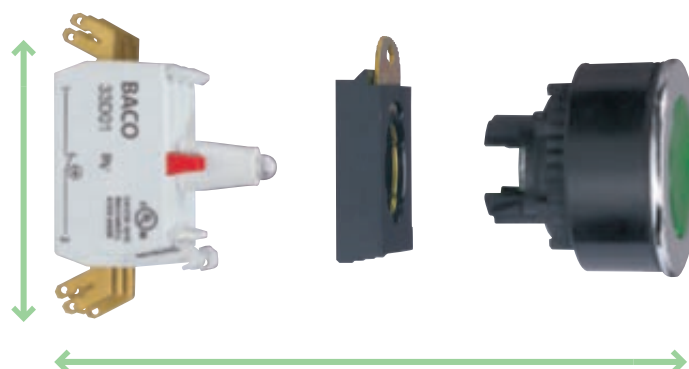
SEPARATE UNITS

- 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)

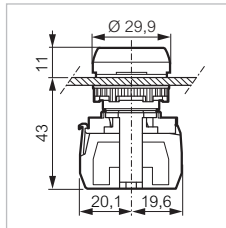
► SPRING RETURN - NON ILLUMINATED

FLUSH

Cat. No.



L21AA02A



Without engraving

● Red

● Green

● Black

● Yellow

● Blue

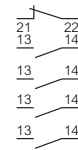
NC

NO

NO

NO

NO



L21AA01B
L21AA02A
L21AA03A
L21AA04C
L21AA06A

With engraving

● Red

● Green

NC

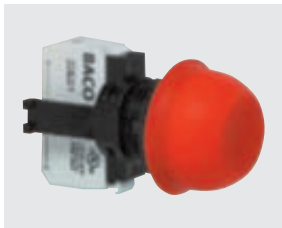
NO



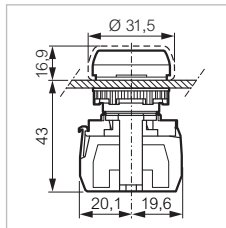
L21AA81B
L21AA82B

FLUSH

Reinforced degree of protection: IP 67



L22AF01A



Supplied with opaque shroud

● Red

● Green

● Black

NC

NO

NO

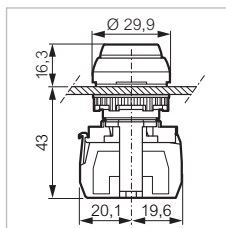


L22AF01A
L22AF02A
L22AF03A

PROJECTING



L21AB01A



● Red

NC



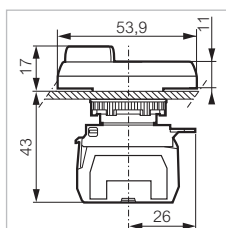
L21AB01A

FLUSH-PROJECTING

Double touch



L61QB21A

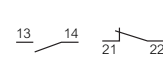


● Green - Flush

● Red - Projecting

NO

NC



L61QB21A

Complete units: Selector switches 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)

► SELECTOR SWITCHES - NON ILLUMINATED

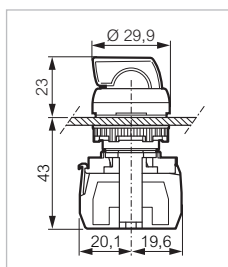
WITH HANDLE

2 positions

Cat. No.

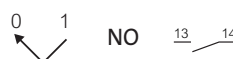


L21KE03B



Stay-put positions - 90°

● Black



L21KE03B

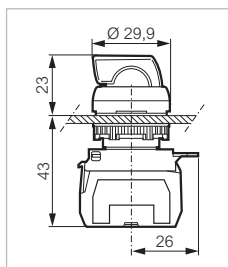
WITH HANDLE

3 positions

Cat. No.

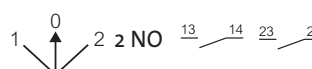


L21MA03A



Stay-put positions - 45°

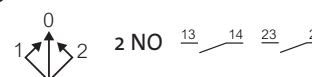
● Black



L21MA03A

Spring return to 0 - 45°

● Black



L21MD03A

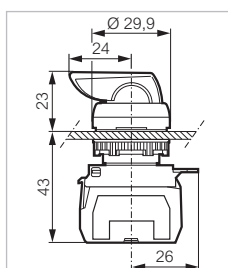
WITH LONG HANDLE

3 positions

Cat. No.



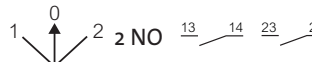
L21MR03A



Kontakt

Stay-put positions - 45°

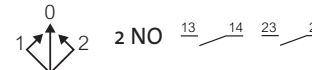
● Black



L21MR03A

Spring return to 0 - 45°

● Black



L21MU03B

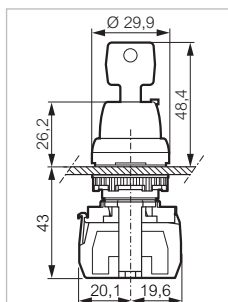
WITH KEY

2 positions

Cat. No.



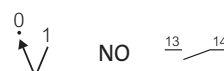
L21LA00G



Supplied with 2 keys profile n°455

Stay-put positions - 45°

Key free
in position 0



L21LA00G

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

Complete units: Mushroom heads ø 22

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

 Characteristics (p. 94)

► MUSHROOM HEADS - NON ILLUMINATED

Ø 40 - SPRING RETURN

Push

Cat. No.



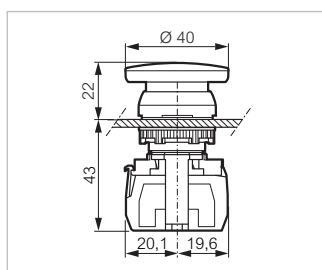
L21AD01C

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

● Red

NC 

L21AD01C



Ø 40 - STAY-PUT

Push-turn to reset

Cat. No.



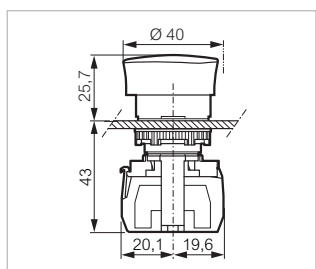
L22ED01D

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)

► MUSHROOM HEADS - NON ILLUMINATED (CONTINUED)

$\varnothing 40$ - STAY-PUT

Push-pull to reset

Cat. No.

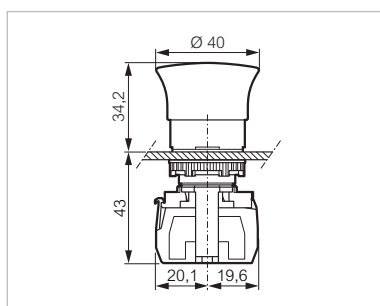


L22DD01A

● Red

NC 

L22DD01A



$\varnothing 40$ - STAY-PUT

Key to reset

Cat. No.



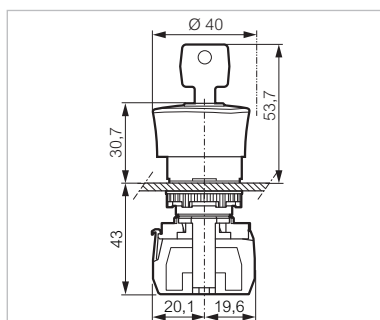
L22GM01E

Supplied with 2 keys profile n°455

● Red

NC 

L22GM01E



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

Complete units: Mushroom heads ø 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)

► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

Ø 40 EN 418/ISO 13850 - STAY-PUT

Push-turn to reset

Cat. No.

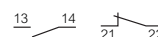


L22ER01D

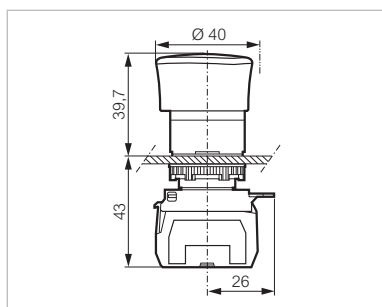
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850

● Red

NO + NC



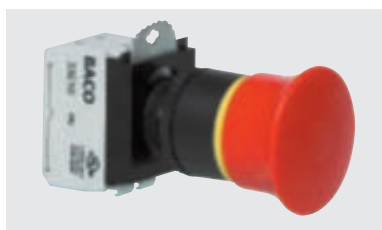
L22ER01D



Ø 40 EN 418/ISO 13850 - STAY-PUT

Push-pull to reset

Cat. No.

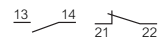


L22DR01B

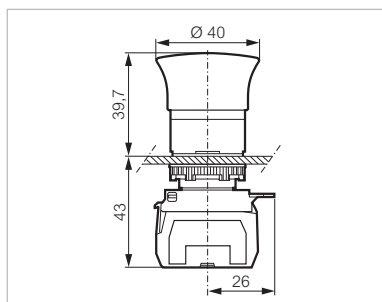
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850

● Red

NO + NC



L22DR01B



Complete units: Mushroom heads ø 22

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



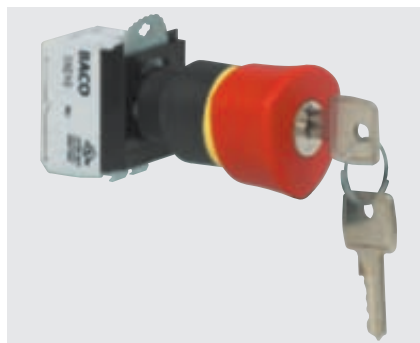
Characteristics (p. 94)

► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

Ø 40 EN 418/ISO 13850 - STAY-PUT

Key to reset

Cat. No.

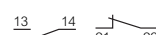


L22GR01B

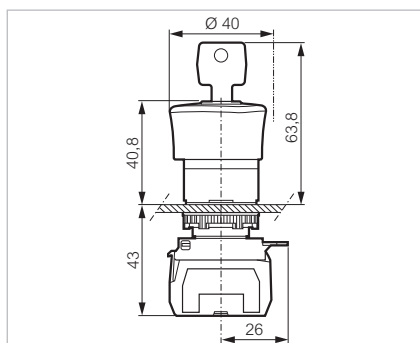
Double position indicator: head and collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850
Supplied with 2 keys profile n°455

● Red

NO + NC



L22GR01B



Ø 54 EN 418/ISO 13850 - STAY-PUT

Push-pull to reset with flag indicator

Cat. No.



L22DU01G

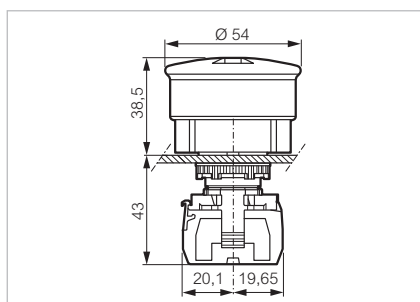
Double position indicator: head and collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850
Flag indicator: Engraving STOP and I

● Red

NC



L22DU01G



Complete units: Pushbuttons 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)

► SPRING RETURN - ILLUMINATED

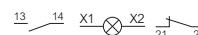
FLUSH

Cat. No.



L21AH20L

LED blocks



24V

- Red
- Green
- Yellow
- White
- Blue

NO+NC
NO+NC
NO+NC
NO+NC
NO+NC

L21AH10L
L21AH20L
L21AH40L
L21AH50L
L21AH60L

130 V

- Red
- Green

NO+NC
NO+NC

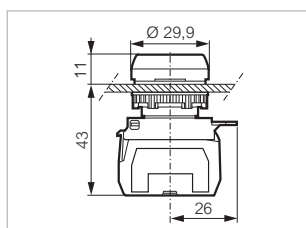
L21AH10M
L21AH20M

230 V

- Red
- Green

NO+NC
NO+NC

L21AH10H
L21AH20H

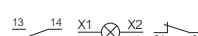


TWIN TOUCH - FLUSH-PROJECTING



L61QK21H

LED blocks Central part illuminated



24 V

- Green
- Red

NO
NC

L61QK21L

130 V

- Green
- Red

NO
NC

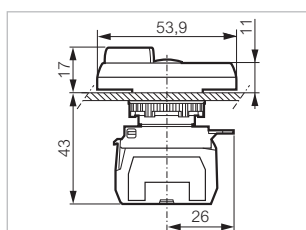
L61QK21M

230 V

- Green
- Red

NO
NC

L61QK21H



Complete units: Selector switches 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

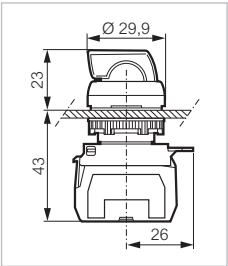
 Characteristics (p. 94)

▶ SELECTOR SWITCHES - ILLUMINATED

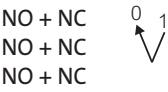
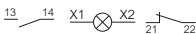
WITH HANDLE	2 positions	Cat. No.
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L21KG10C



LED blocks
Stay-put positions - 45°
24 V
● Red
● Green
● Black



L21KG10C
L21KG20E
L21KG30B

Complete units: Pilot lights ø 22

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

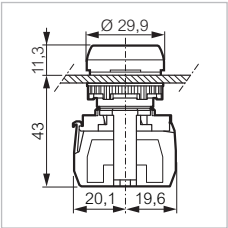
 Characteristics (p. 94)

► 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)

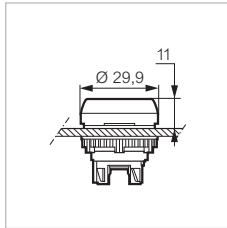
► PUSH-BUTTONS - NON ILLUMINATED

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. 70)

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)



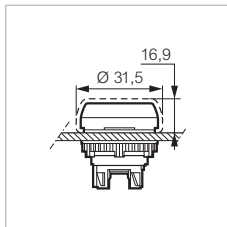
L21AA00

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 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)

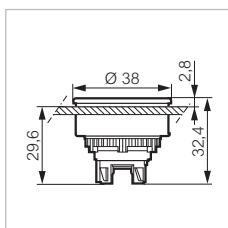
► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

SPRING RETURN - SUPER FLUSH

Cat. No.



L23AA02



Metallic chrome bezel
Cut-out ø 30,5 mm

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

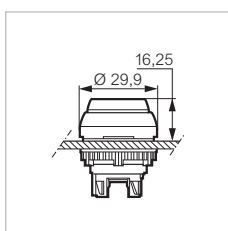
L23AA31□□□
L23AA32□□□
L23AA33□□□
L23AA34□□□
L23AA35□□□
L23AA36□□□

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

SPRING RETURN - PROJECTING



L21AB01



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

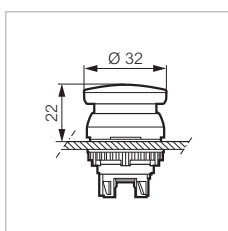
L21AB01
L21AB02
L21AB03
L21AB04
L21AB05
L21AB06

SPRING RETURN - MUSHROOM HEAD Ø 32

Push



L21AC03



- Red
- Green
- Black
- Yellow

L21AC01
L21AC02
L21AC03
L21AC04

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)

► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

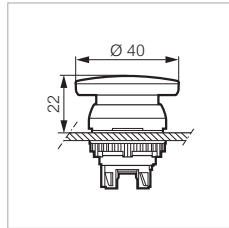
SPRING RETURN - MUSHROOM HEAD Ø 40

Push

Cat. No.



L21AD01



- Red
- Green
- Black
- Yellow
- Blue

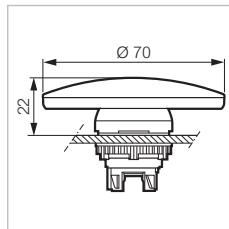
L21AD01
L21AD02
L21AD03
L21AD04
L21AD06

SPRING RETURN - MUSHROOM HEAD Ø 70

Push



L21AE03



- Red
- Black

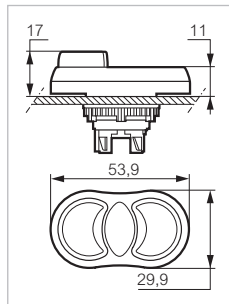
L21AE01
L21AE03

SPRING RETURN - FLUSH-PROJECTING

Double touch



L61QB21



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

L61QB21

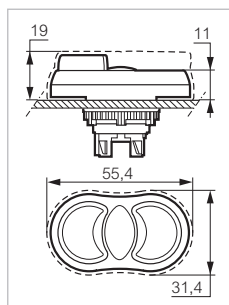
L61QB21B

SPRING RETURN - FLUSH-PROJECTING

Double touch - reinforced degree of protection: IP 67



L62QM21



Supplied with transparent shroud

- Green
- Red

L62QM21

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)

► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

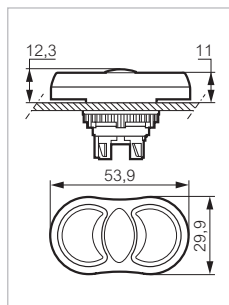
SPRING RETURN - FLUSH-FLUSH

Double touch

Cat. No.



L61QA21



- Green
- Red
- Green engraving ◁||▷
- Green engraving ▷|◁
- Green
- Green
- Black
- Black

L61QA21

L61QA22

L61QA22K

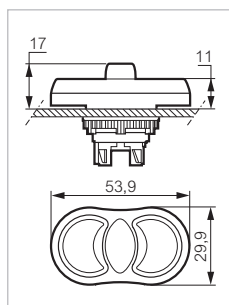
L61QA33C

SPRING RETURN - FLUSH-PROJECTING-FLUSH

Triple touch



L61BA22



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

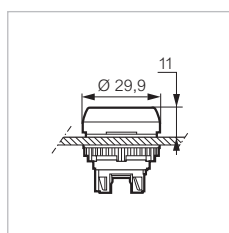
L61BA22

L61BA22B

STAY-PUT - FLUSH



L21CA01



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

L21CA01
L21CA02
L21CA03
L21CA04
L21CA05
L21CA06

Separate units ø 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)

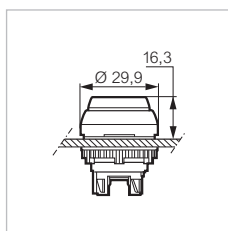
► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

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

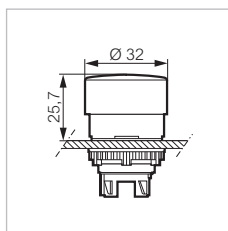
► MUSHROOM HEADS - NON ILLUMINATED

Ø 32 - STAY-PUT

Push-turn to reset



L22EC01



- Red
- Green
- Black
- Yellow

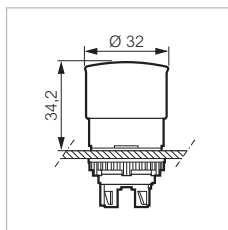
L22EC01
L22EC02
L22EC03
L22EC04

Ø 32 - STAY-PUT

Push-pull to reset



L22DC01



- Red

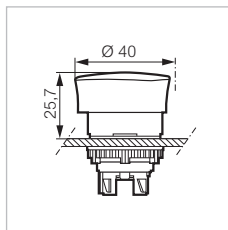
L22DC01

Ø 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 ø 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)

► MUSHROOM HEAD - NON ILLUMINATED (CONTINUED)

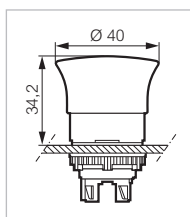
Ø 40 - STAY-PUT

Push-pull to reset

Cat. No.



L22DD01



- Red
- Black

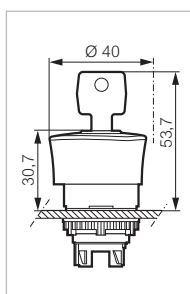
L22DD01
L22DD03

Ø 40 - STAY-PUT

Key to reset



L22GM01



Supplied with 2 keys profile n° 455

- Red

L22GM01

► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

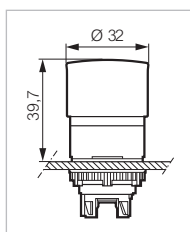
Ø 32 EN 418/ISO 13850 - STAY-PUT

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

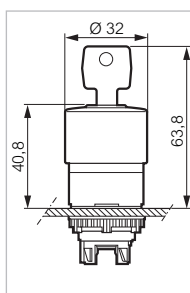
L22DQ01

Ø 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 ø 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)

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

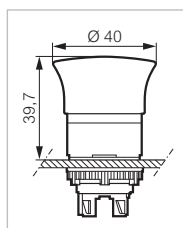
Ø 40 EN 418/ISO 13850 - STAY-PUT

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

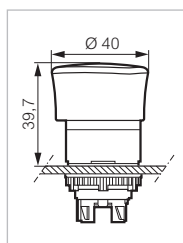
L22DR01

Ø 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

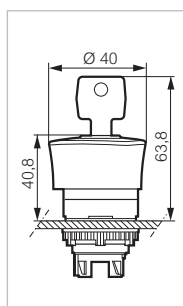
L22ER01

Ø 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

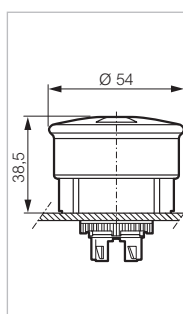
L22GR01

Ø 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 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)

► SELECTOR SWITCHES - NON ILLUMINATED

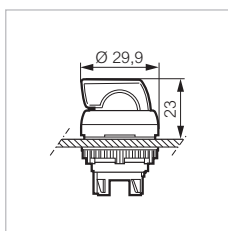
WITH HANDLE

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 ø 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)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

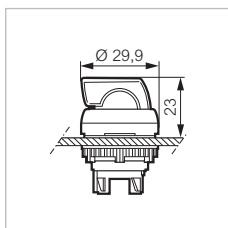
WITH HANDLE

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 ø 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)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

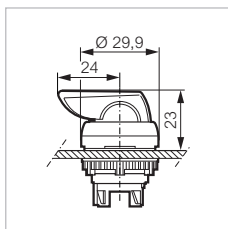
WITH LONG HANDLE

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 ø 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)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

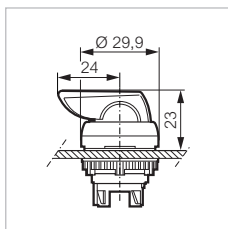
WITH LONG HANDLE

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 ø 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)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

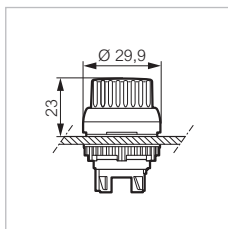
WITH KNOB

2 positions

Cat. No.



L21TF03



Stay-put positions - 45°

- Black



L21TA03

Spring return - 45°

- Black



L21TB03

Stay-put positions - 90°

- Black



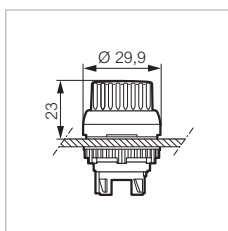
L21TF03

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 ø 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)

SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

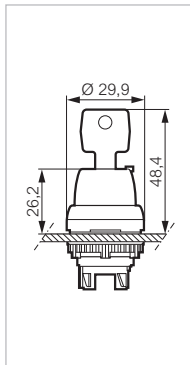
WITH KEY

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 ø 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)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

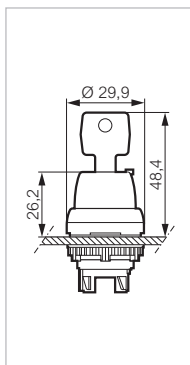
WITH KEY

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 ø 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)

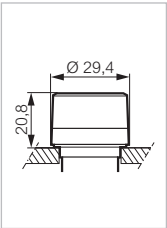
▶ ADJUSTABLE MECHANICAL PUSH/RESET BUTTON - NON ILLUMINATED

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. 70)
Symbol code to be added at the end of the catalogue number

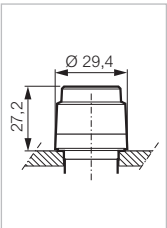
- Red
- Green
- Black
- Yellow
- White
- Blue

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 ø 22: Heads

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



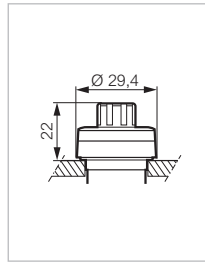
Characteristics (p. 94)

► BUTTON FOR POTENTIOMETER - NON ILLUMINATED

Cat. No.



L21RP03



Head + mounting base for potentiometer
Plastic chrome bezel

Shaft ø 6 or 6.35 mm
Potentiometer length 46 to 51 mm

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

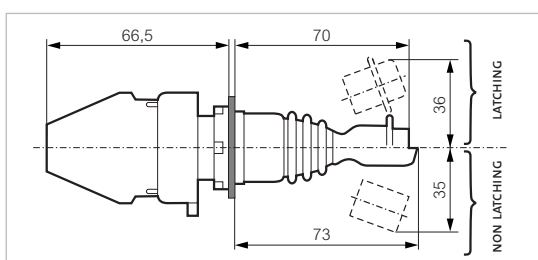
LMV4F

4 spring-return A
C → 0 ← D
B

LMV4A



LMV4F



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

Separate units ø 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)

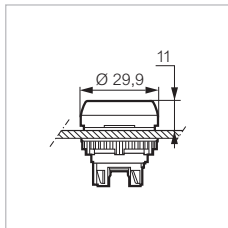
► PUSH-BUTTONS - ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



L21AH20



Without engraving

- Red
- Green
- Yellow
- White
- Blue

L21AH10
L21AH20
L21AH40
L21AH50
L21AH60

On demand engraving (p. 70)

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)

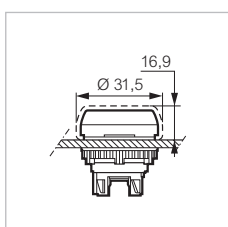
L21AH00

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



L22AP40



Supplied with transparent shroud

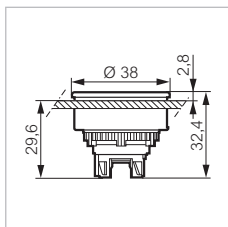
- Red
- Green
- Yellow
- White
- Blue

L22AP10
L22AP20
L22AP40
L22AP50
L22AP60

SPRING RETURN - SUPER FLUSH



L23AH10



Metallic chrome bezel

Drilling ø 30,5 mm

Without engraving

- Red
- Green
- Yellow
- White
- Blue

L23AH10
L23AH20
L23AH40
L23AH50
L23AH60

On demand engraving (p. 70)

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

- Red
- Green
- Yellow
- White
- Blue

L23AH31□□□
L23AH32□□□
L23AH34□□□
L23AH35□□□
L23AH36□□□

Separate units ø 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)

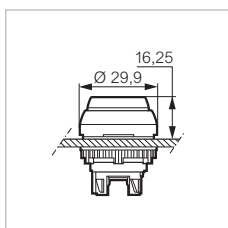
► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

SPRING RETURN - PROJECTING

Cat. No.



L21AK20



- Red
- Green
- Yellow
- White
- Blue

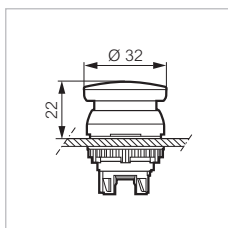
L21AK10
L21AK20
L21AK40
L21AK50
L21AK60

SPRING RETURN - MUSHROOM HEAD Ø 32

Push



L21AL10



- Red
- Green
- Yellow
- White

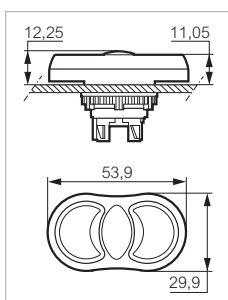
L21AL10
L21AL20
L21AL40
L21AL50

SPRING RETURN - FLUSH-FLUSH

Double touch



L61QH21



Central part illuminated

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

L61QH21

L61QH22V

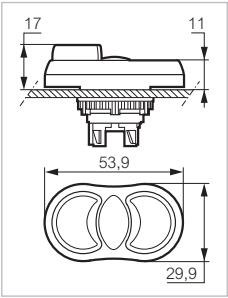
L61QH21A

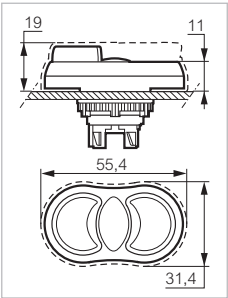
Separate units ø 22: Heads

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)

► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

SPRING RETURN - FLUSH-PROJECTING	Double touch	Cat. No.
		Central part illuminated
	 Green	L61QK21
	 Red	
	 White	L61QK53
	 Black	
	 Green engraving START	L61QK21A
	 Red engraving STOP	

SPRING RETURN - FLUSH-PROJECTING	Double touch - reinforced degree of protection: IP 67	
		Supplied with transparent shroud Central part illuminated
	 Green	L62QN21
	 Red	

Separate units ø 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

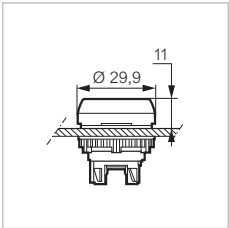
 Characteristics (p. 94)

► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

STAY-PUT - FLUSH Réf.



L21CH20



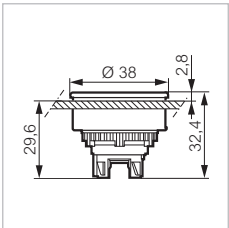
- Red
- Green
- Yellow
- White
- Blue

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

STAY-PUT - SUPER FLUSH



L23CH10



Metallic chrome bezel
Drilling ø 30,5 mm

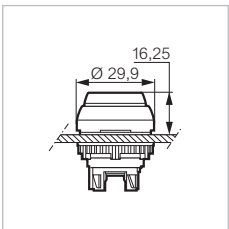
- Red
- Green
- Yellow
- White
- Blue

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

STAY-PUT - PROJECTING



L21CK20



- Red
- Green
- Yellow
- White
- Blue

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

Separate units ø 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)

► MUSHROOM HEADS - ILLUMINATED

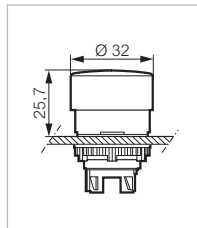
Ø 32 - STAY-PUT

Push-turn to reset

Cat. No.



L22EL10



• Red

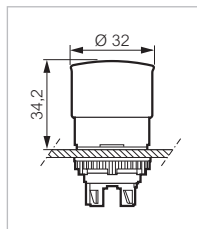
L22EL10

Ø 32 - STAY-PUT

Push-pull to reset



L22DL10



• Red

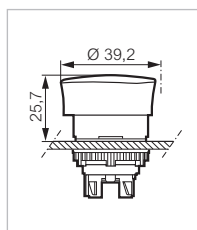
L22DL10

Ø 40 - STAY-PUT

Push-turn to reset



L22EM10



• Red
• Green
• Yellow

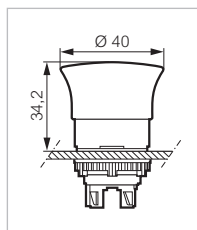
L22EM10
L22EM20
L22EM40

Ø 40 - STAY-PUT

Push-pull to reset



L22DM10



• Red
• Green
• Yellow
○ White

L22DM10
L22DM20
L22DM40
L22DM50

Separate units ø 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)

► EN 418/ISO 13850 EMERGENCY STOP - ILLUMINATED

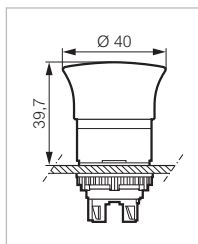
Ø 40 EN 418/ISO 13850- STAY-PUT

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

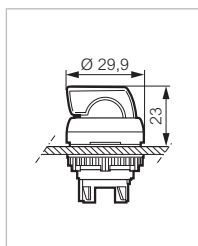
WITH HANDLE

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

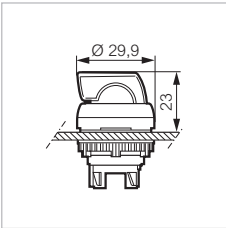
Catalogue No. in bold: normally in stock at distribution outlets

Separate units ø 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)

► 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 ø 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)

► SELECTOR SWITCHES - ILLUMINATED (CONTINUED)

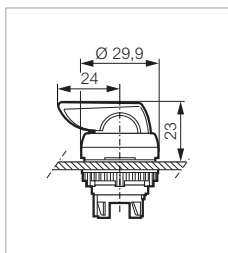
WITH LONG HANDLE

2 positions

Cat. No



L21KV30



Stay-put positions - 45°

- Black



L21KV30

Stay-put positions - 45°

- Black



L21KV30

Spring return - 45°

- Black



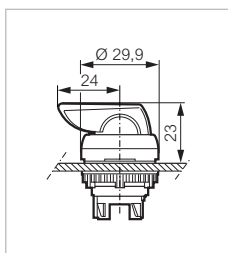
L21KV30

WITH LONG HANDLE

3 positions



L21ML30



Stay-put positions - 45°

- Black



L21ML30

Spring return from left to 0 - 45°

- Black



L21ML30

Spring return from right to 0 - 45°

- Black



L21ML30

Spring return to 0 - 45°

- Black



L21ML30

Pilot lights ø 22

IP 66
To be combined with a clip, LED block (p. 51)
With locking ring
Conform to IEC 60947-5-1



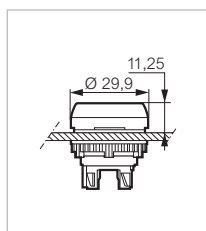
Characteristics (p. 94)

► 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

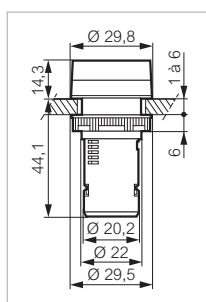
L20SE31|_|_|_|
L20SE32|_|_|_|
L20SE34|_|_|_|
L20SE35|_|_|_|
L20SE36|_|_|_|

► 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

- 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 ø 22

IP 66
Direct supply



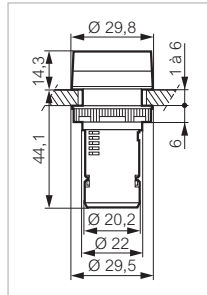
Characteristics (p. 94)

► 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

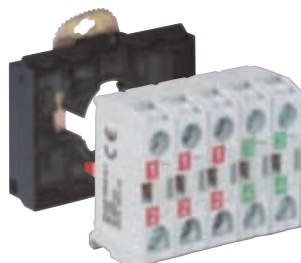
► CLIP

"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 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)

► CONTACT BLOCKS - FOR NON ILLUMINATED HEADS

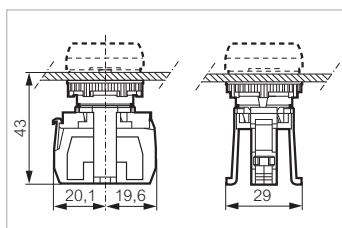
SCREW TERMINALS

1 position clip

Cat. No.



331E10



NO



331E10

NC



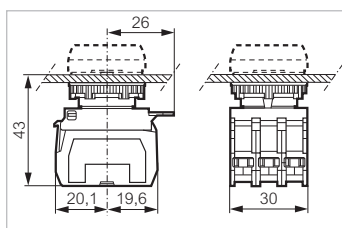
331E01

SCREW TERMINALS

3 position clip



333E21



NO



333E10

NC



333E01

2 NO



333E20

2 NC



333E02

NO + NC



333E11

3 NO

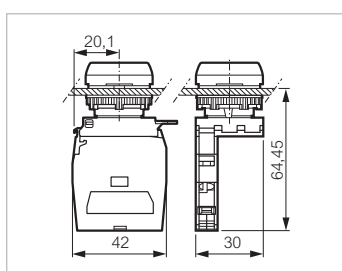


333E30

3 NC



333E03



NO/NC

2 NO + NC



333E21

NO + 2 NC



333E12

NO/NC

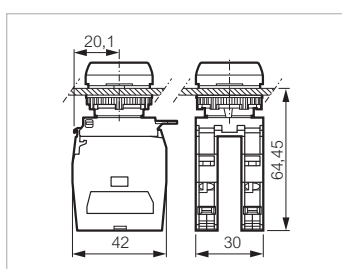


334E11

2 NO/NC



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)

► CONTACT BLOCKS - FOR NON ILLUMINATED HEADS (CONTINUED)

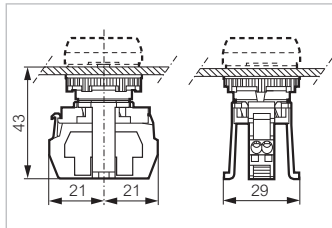
PLUG-IN TERMINALS

1 position clip

Cat. No.



331ER01



NO 
NC 

331ER10

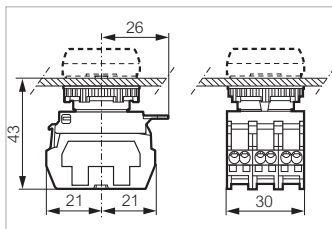
331ER01

PLUG-IN TERMINALS

3 position clip



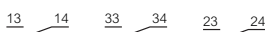
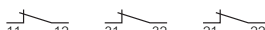
333ER11



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

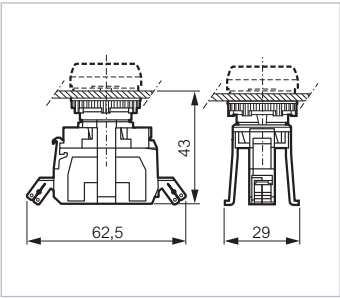
 Characteristics (p. 94)

CONTACT BLOCKS - FOR NON ILLUMINATED HEADS (CONTINUED)

FASTON TERMINALS 1 position clip Cat. No.



331ED10



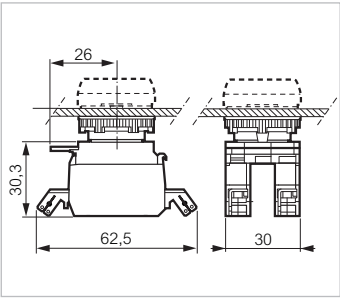
NO 
NC 

331ED10
331ED01

FASTON TERMINALS 3 position clip



333ED11



NO + NC 

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)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS

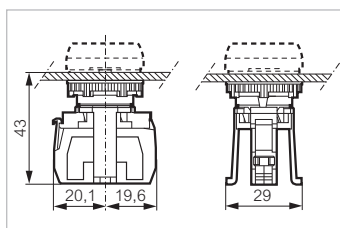
SCREW TERMINALS

1 position clip: LED block

Cat. No.



331EAGL



LED



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

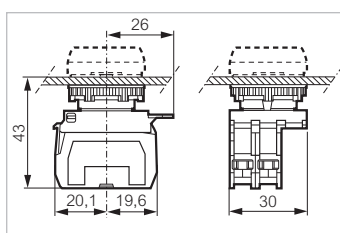
331EAWH
331EARH
331EAGH
331EABH
331EAYH

SCREW TERMINALS

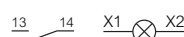
3 position clip: NO + LED block



333EAWM10



LED



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)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

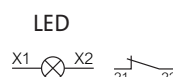
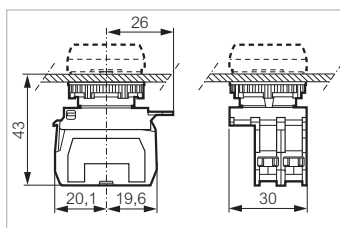
SCREW TERMINALS

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

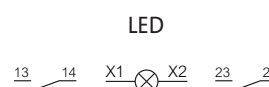
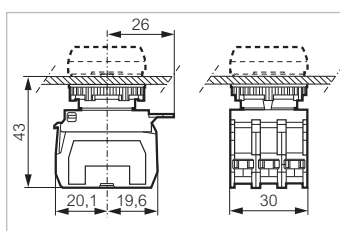
333EAWH01
333EARH01
333EAGH01
333EABH01
333EAYH01

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)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

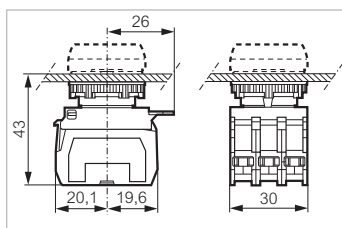
SCREW TERMINALS

3 position clip: NO + LED block + NC

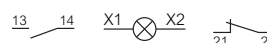
Cat. No.



333EARL11



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

333EAWL11
333EARL11
333EAGL11
333EABL11
333EAYL11

130 V

- White
- Red
- Green
- Blue
- Yellow

333EAWM11
333EARM11
333EAGM11
333EABM11
333EAYM11

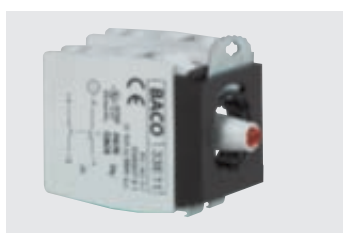
230 V

- White
- Red
- Green
- Blue
- Yellow

333EAWH11
333EARH11
333EAGH11
333EABH11
333EAYH11

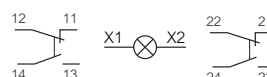
SCREW TERMINALS

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



334EARL22

LED



24 V

- White
- Red
- Green
- Blue
- Yellow

334EAWL22
334EARL22
334EAGL22
334EABL22
334EAYL22

130 V

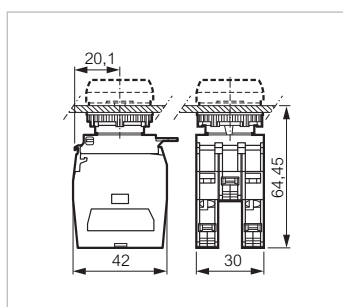
- White
- Red
- Green
- Blue
- Yellow

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)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

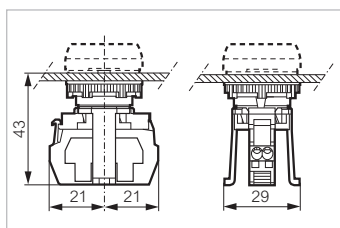
PLUG-IN TERMINALS

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

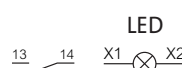
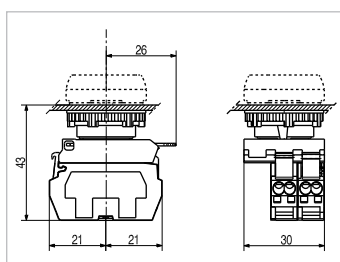
331ERAWH
331ERARH
331ERAGH
331ERABH
331ERAYH

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)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

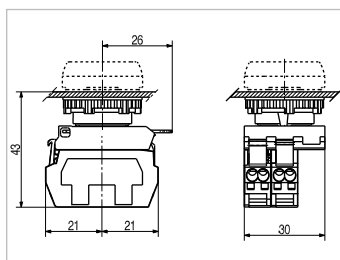
PLUG-IN TERMINALS

3 position clip: LED block + NC

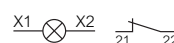
Cat. No.



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

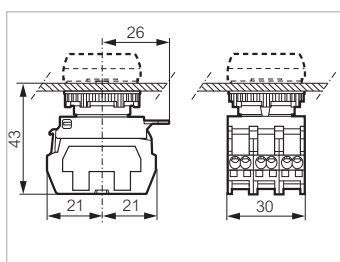
333ERAWH01
333ERARH01
333ERAGH01
333ERABH01
333ERAYH01

PLUG-IN TERMINALS

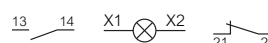
3 position clip: NO + LED block + NC



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)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

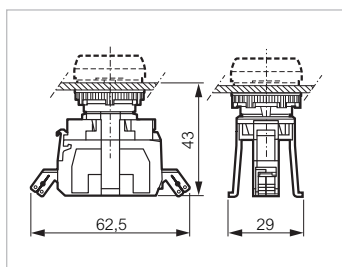
FASTON TERMINALS

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

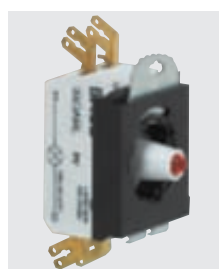
230 V

- White
- Red
- Green
- Blue
- Yellow

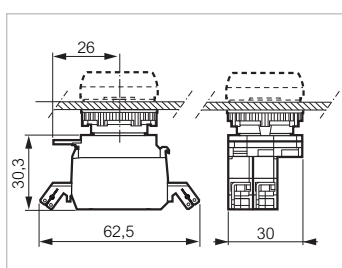
331EDAWH
331EDARH
331EDAGH
331EDABH
331EDAYH

FASTON TERMINALS

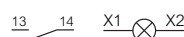
3 position clip: NO + LED block



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
- Yellow

333EDAWH10
333EDARH10
333EDAGH10
333EDABH10
333EDAYH10

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



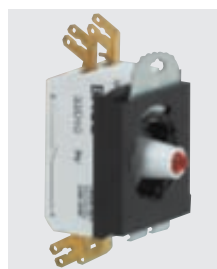
Characteristics (p. 94)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

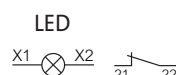
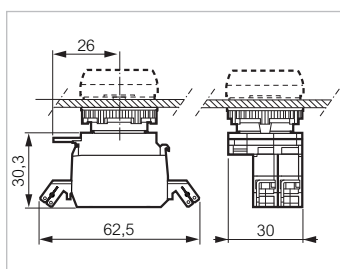
FASTON TERMINALS

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

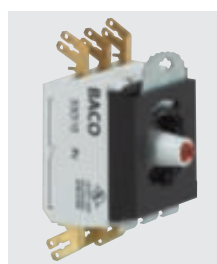
230 V

- White
- Red
- Green
- Blue
- Yellow

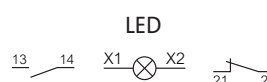
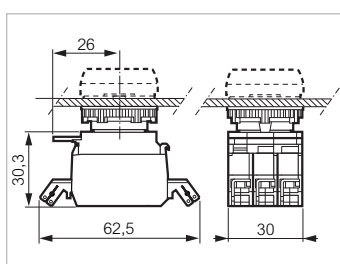
333EDAWH01
333EDARH01
333EDAGH01
333EDABH01
333EDAYH01

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)

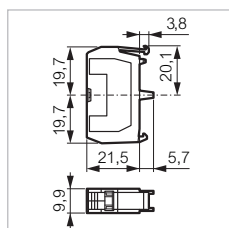
CONTACT BLOCKS

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

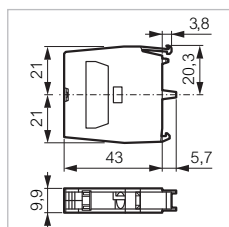
NC



33E01C



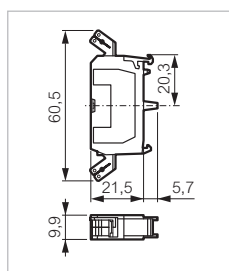
33E11



FASTON TERMINALS



33D01



NO



33D10

NC

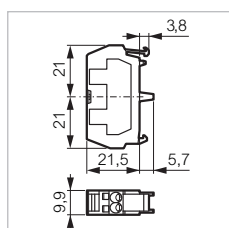


33D01

PLUG-IN TERMINALS



33R01



NO



33R10

NC



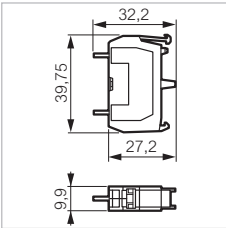
33R01

Separate units: Blocks

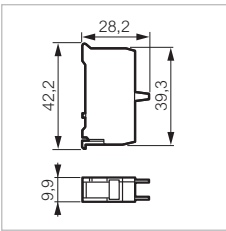
IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)

 Characteristics (p. 94)

▶ CONTACT BLOCKS (CONTINUED)

FOR PCB (PIN-STYLE TERMINALS)				Cat. No.
		NO		33P10
		NC		33P01
		Golden contacts for low current		
		NO		33P10Y7
		NC		33P01Y7

FOR CONTROL STATIONS (SCREW TERMINALS)

		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)

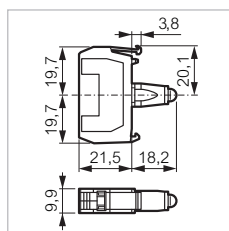
► LED BLOCKS

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)

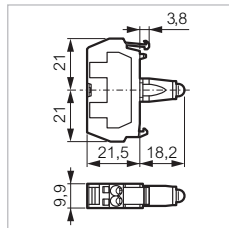
► LED BLOCKS (CONTINUED)

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

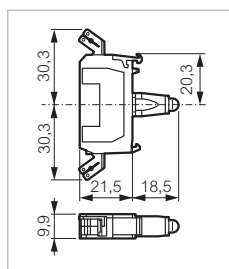
- White
- Red
- Green
- Blue
- Yellow

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)

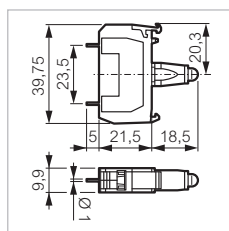
► LED BLOCKS (CONTINUED)

FOR PCB (PIN STYLE)

Cat. No.



33PAWL



LED



24 V

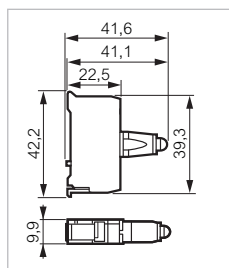
- White
- Red
- Green
- Blue
- Yellow

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)

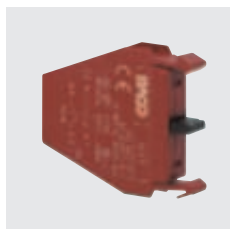


Characteristics (p. 94)

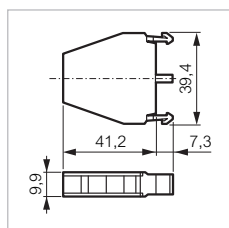
► SPECIFIC BLOCKS

FOR JOYSTICKS (SCREW TERMINALS)

Cat. No.



LM11



Joysticks (p. 36)

NO - NC

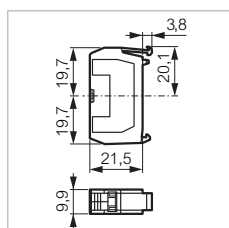


LM11

LAMP-TEST BLOCKS (SCREW TERMINALS)

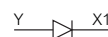


33ET



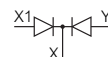
For 24 and 48 V

1 diod



33ET

2 diods



33ETT

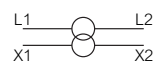
For 130 and 230 V (form p. 79)

TRANSFORMER BLOCKS (SCREW TERMINALS)

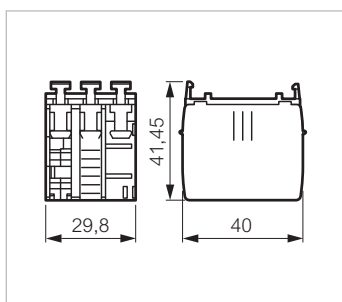


33EHC

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)

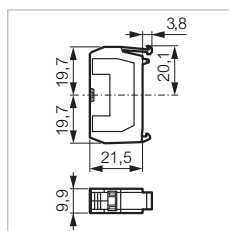
► SPECIFIC BLOCKS

FILTER BLOCKS (SCREW TERMINALS)

Cat. No.

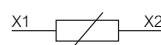


33EFH



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

130 V
230 V

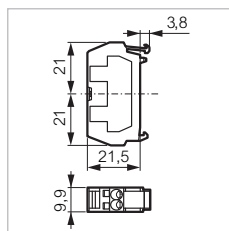


33EFM
33EFH

FILTER BLOCKS (PLUG-IN TERMINALS)

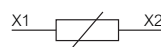


33RFH



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

130 V
230 V

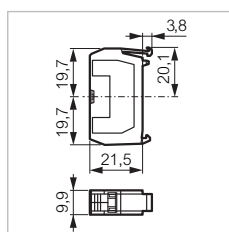


33RFM
33RFH

JUNCTION BLOCK (SCREW TERMINALS)



33EY



2 interconnected
terminals

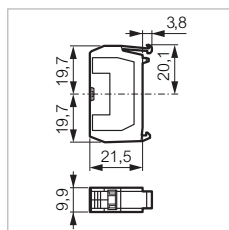


33EY

EMPTY BLOCK



33EX



For empty positions on 3 or 5 position clip

33EX

Accessories



Characteristics (p. 94)

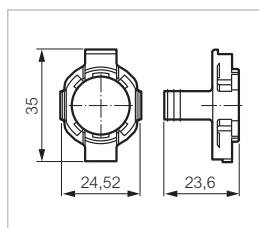
CLIPS

CLIPS

Cat. No.



331E



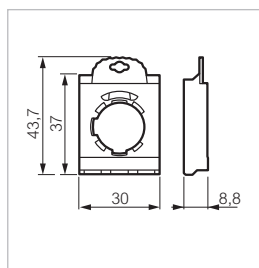
To be combined with blocks (p. 58 to 64)

1 position

331E



333E

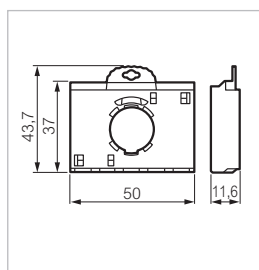


3 positions

333E



335E



5 positions (only for $\varnothing 22$ heads)

335E

ROUND LEGEND PLATE

FOR MUSHROOM HEAD

Cat. No.



LWE16300

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

Other languages (form p. 79)

Accessories ø 22



Characteristics (p. 94)

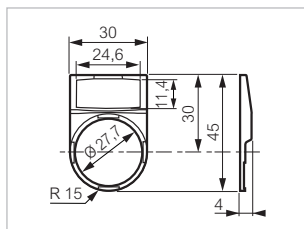
► COMPLETE FRAMES

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 ...)

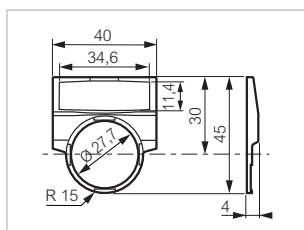
- Transparent

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

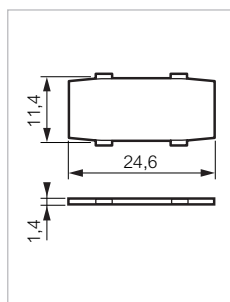
Cat. No.



LIA5



LIA1



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

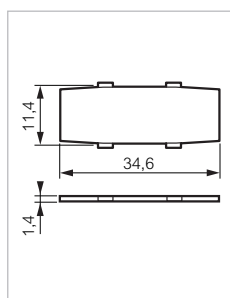
Large model



LIB9



LIB3



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

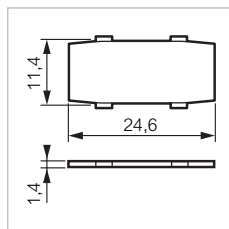
ENGRAVED

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

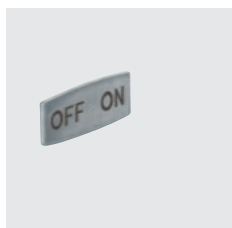
O-I	LIA9081
I-II	LIA9082
I-O-II	LIA9091
MANU-O-AUTO	LIA9191
HAND-O-AUTO	LIA9291
START	LIA9301
ON	LIA9303
OFF	LIA9304
RESET	LIA9315
RUN	LIA9327
HAND-AUTO	LIA9383

On demand engraving (p. 70)

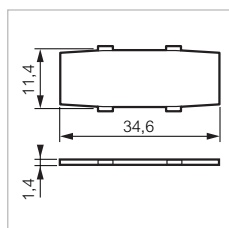
Symbol code to be added at the end of the catalogue number LIA9□□□

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

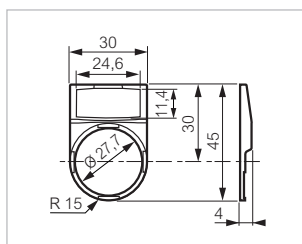
ROUND

Standard model

Cat. No.



LWP3



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

● Black

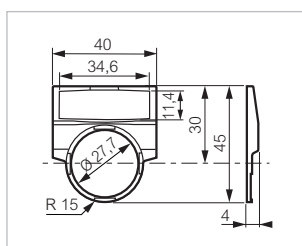
LWP3

ROUND

Large model



LWG3



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

● Black

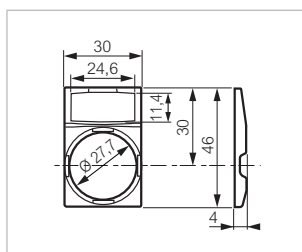
LWG3

SQUARE

Standard model



LWP4



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

● Black

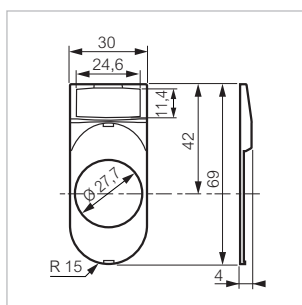
LWP4

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
BREMSSEN	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

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



LT21302

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



LT34308

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

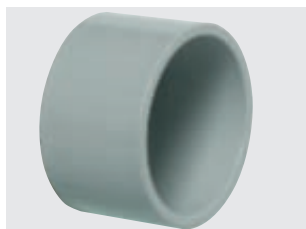


Characteristics (p. 94)

► 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

BULB EXTRACTOR



LWA0201

For BA9S bulbs

LWA0201

ANTI-ROTATION RING



LWA0237

For selector switches

LWA0237

BLANKING PLUG



LWA0229

- Black
- Grey

LWA0229
LWA0215

Accessories ø 22



Characteristics (p. 94)

► MISCELLANEOUS (CONTINUED)

FIXING TOOL

Cat. No.



LWA0234

Fixing tool for locking ring

LWA0234

REDUCTION RING Ø 30/22



LWA0219

Converts ø 30 mm cut-out to 22 mm hole

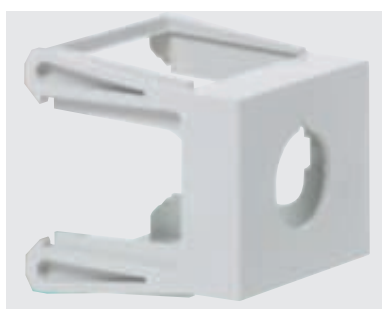
● Grey

LWA0219

● Yellow

LWA0220

PUSH BUTTON SUPPORT CLIP-ON TO DIN RAIL



LWA0238

For pilot lights, spring return buttons and selector switches

LWA0238

PADLOCKABLE SHROUD



LWA0226

For spring return push-buttons

LWA0226

▶ 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

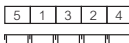
Connection :

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

Clips :

☐ 1 position 

☐ 3 positions 

☐ 5 positions 

☐ 6 positions 

Options :

☐ Head, block and clip assembled

YOUR DETAILS	
Company:	
Name and surname:	
Address:	
E-mail :	
Tel.:	
Fax:	

[illegible]

▶ SELECTOR SWITCHES' SWITCHING ANGLE

Figure 1 shows a sequence of 11 diagrams illustrating the evolution of a network structure. Each diagram consists of a central node with arrows pointing to other nodes, labeled with numbers 0, 1, or 2. Below each diagram is a small square icon representing a network state.

- Diagram 1: Central node with two arrows pointing to nodes labeled 0 and 1.
- Diagram 2: Central node with two arrows pointing to nodes labeled 0 and 1.
- Diagram 3: Central node with two arrows pointing to nodes labeled 0 and 1.
- Diagram 4: Central node with two arrows pointing to nodes labeled 0 and 1.
- Diagram 5: Central node with two arrows pointing to nodes labeled 0 and 1.
- Diagram 6: Central node with two arrows pointing to nodes labeled 0 and 1.
- Diagram 7: Central node with two arrows pointing to nodes labeled 0 and 1.
- Diagram 8: Central node with two arrows pointing to nodes labeled 0 and 1.
- Diagram 9: Central node with two arrows pointing to nodes labeled 0 and 1.
- Diagram 10: Central node with two arrows pointing to nodes labeled 0 and 1.
- Diagram 11: Central node with two arrows pointing to nodes labeled 0 and 1.

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 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 on enclosure and mounting (form p. 90)



Characteristics (p. 94)

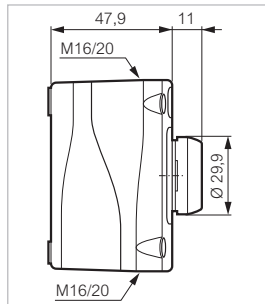
► CONTROL STATIONS WITH 1 BUTTON - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



LBX10110



● Green
● Red

NO
NC



Marking

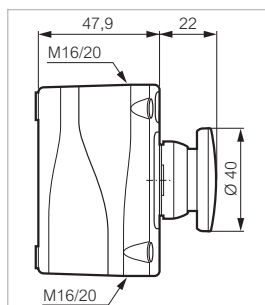


LBX10110
LBX10610

MUSHROOM HEAD ø 40 - SPRING RETURN



LBX10210



● Red

NC



Marking

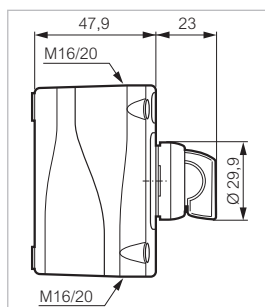


LBX10210

SELECTOR SWITCH - WITH HANDLE



LBX12510



2 stay-put positions - 45°

● Black

NO



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)

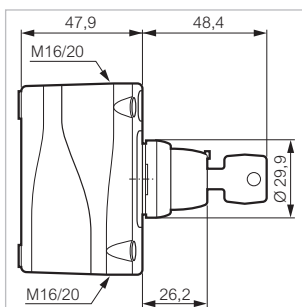
► CONTROL STATIONS WITH 1 BUTTON (CONTINUED)

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 13 14

Marking

○
I

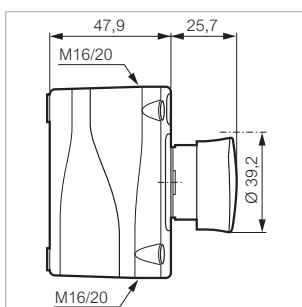
LBX12610

MUSHROOM HEAD ø 40 - STAY-PUT

Push-turn to reset



LBX10510



● Red NC 21 22
● Red NC 21 22
● Red NC 21 22

ARRÊT D'URGENCE
NOT AUS
EMERGENCY STOP

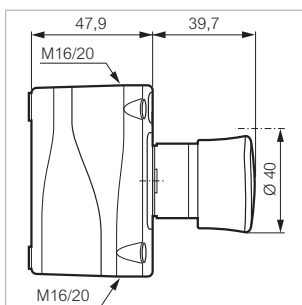
LBX10310
LBX10410
LBX10510

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 21 22
● Red 2 NC 11 12 21 22

● Red NC 21 22
● Red 2 NC 11 12 21 22

● Red NC 21 22
● Red 2 NC 11 12 21 22

ARRÊT D'URGENCE
ARRÊT D'URGENCE

NOT AUS
NOT AUS

EMERGENCY STOP
EMERGENCY STOP

LBX17101
LBX17102

LBX17201
LBX17202

LBX17301
LBX17302

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)

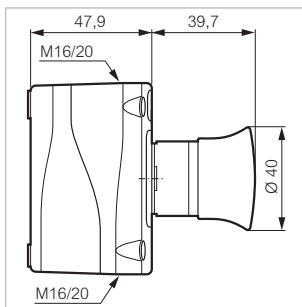
► CONTROL STATIONS WITH 1 BUTTON (CONTINUED)

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

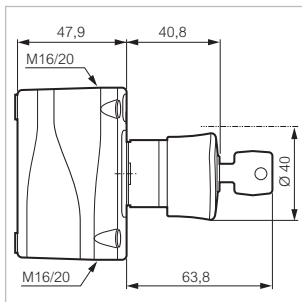
• Red	NC		ARRÊT D'URGENCE	LBX15101
• Red	2 NC		ARRÊT D'URGENCE	LBX15102
• Red	NC		NOT AUS	LBX15201
• Red	2 NC		NOT AUS	LBX15202
• Red	NC		EMERGENCY STOP	LBX15301
• Red	2 NC		EMERGENCY STOP	LBX15302

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

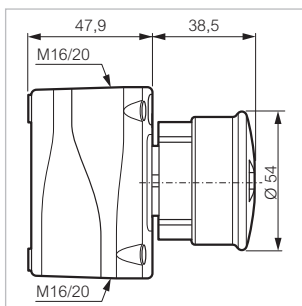
• Red	NC		ARRÊT D'URGENCE	LBX11101
• Red	2 NC		ARRÊT D'URGENCE	LBX11102
• Red	NC		NOT AUS	LBX11201
• Red	2 NC		NOT AUS	LBX11202
• Red	NC		EMERGENCY STOP	LBX11301
• Red	2 NC		EMERGENCY STOP	LBX11302

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 - (I)	LBX14201
• Red	2 NC		STOP - (I)	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)

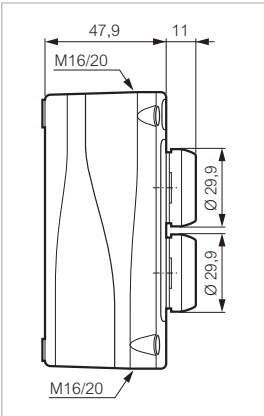
 Characteristics (p. 94)

▶ CONTROL STATIONS WITH 2 BUTTONS

SPRING RETURN - FLUSH Cat. No.



LBX20120



● Green

● Red

NO

NC

13

21

14

22

Marking

⬆

⬇

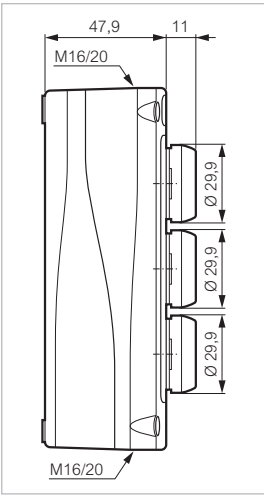
LBX20120

▶ CONTROL STATIONS WITH 3 BUTTONS

SPRING RETURN - FLUSH Cat. No.



LBX30430



● Green

● Red

● Green

NO

NC

NO

13

21

13

14

22

14

Marking

⬆

⬇

⬇

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

LBX30430

Control stations ø 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)

► ENCLOSURES

1 HOLE

Cat. No.

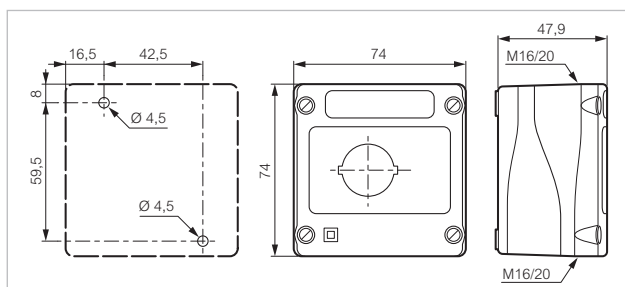


LBX0100J

Black base

- Grey cover
- Yellow cover

LBX0100
LBX0100J



2 HOLES

Cat. No.

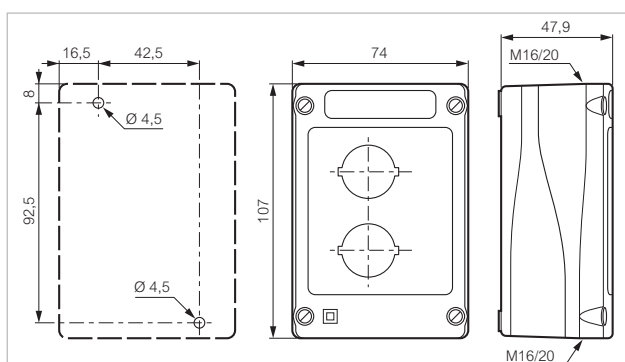


LBX0200

Black base

- Grey cover
- Yellow cover

LBX0200
LBX0200J



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

Control stations ø 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)

► ENCLOSURES (CONTINUED)

3 HOLES

Cat. No.

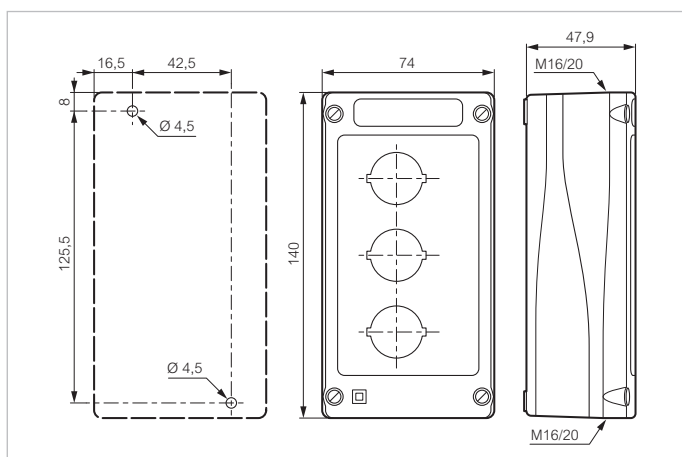


LBX0300

Black base

● Grey cover

LBX0300



Control stations ø 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)

► ENCLOSURES (CONTINUED)

4 HOLES

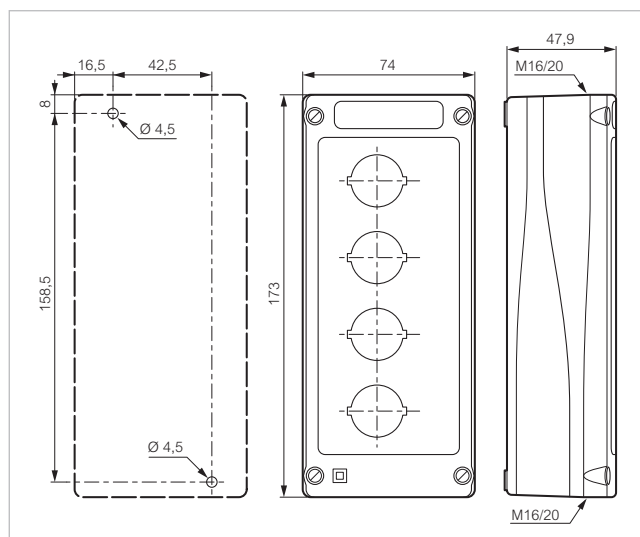
Cat. No.



Black base
 ● Grey cover

LBX0400

LBX0400



Control stations ø 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)

► ENCLOSURES (CONTINUED)

5 HOLES

Cat. No.

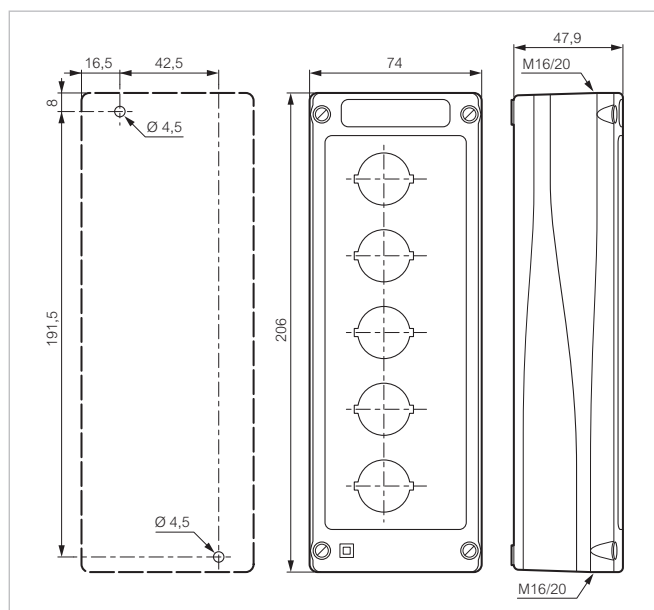


Black base

● Grey cover

LBX0500

LBX0500



Mounting: ☐ horizontal ☐ vertical

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

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

Please fill in the table below

[illegible]

☐ Earth terminal ☐ Contact fixed behind the cover

Function Max. 14 characters on 1 line

			Colour				
	☐ On head	☐ On control station ⁽¹⁾	☐ On legend plate ⁽²⁾	BLACK	RED	ALU	WHITE
							
							
							
							
							

(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

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

Specify the concerned buttons:

Company:

.....

.....

Name and surname:

.....

Address:

.....

.....

E-mail :

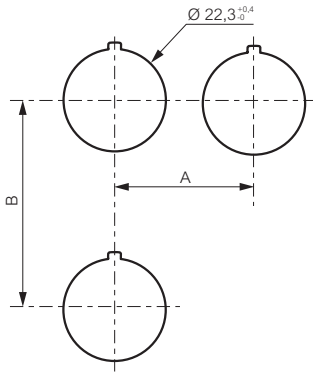
Tel.:

Fax:

COMMENTS

Panel cut-out

DRILLING

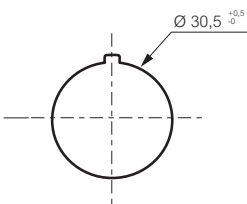


For heads equipped with electrical blocks with screw or plug-in terminals

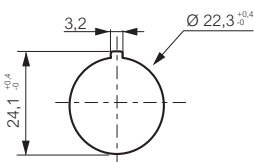
Minimum interval (mm)

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

DRILLING FOR SUPER-FLUSH BUTTON

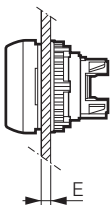


DRILLING WHEN USING THE ANTI-ROTATION RING (OPTIONAL)



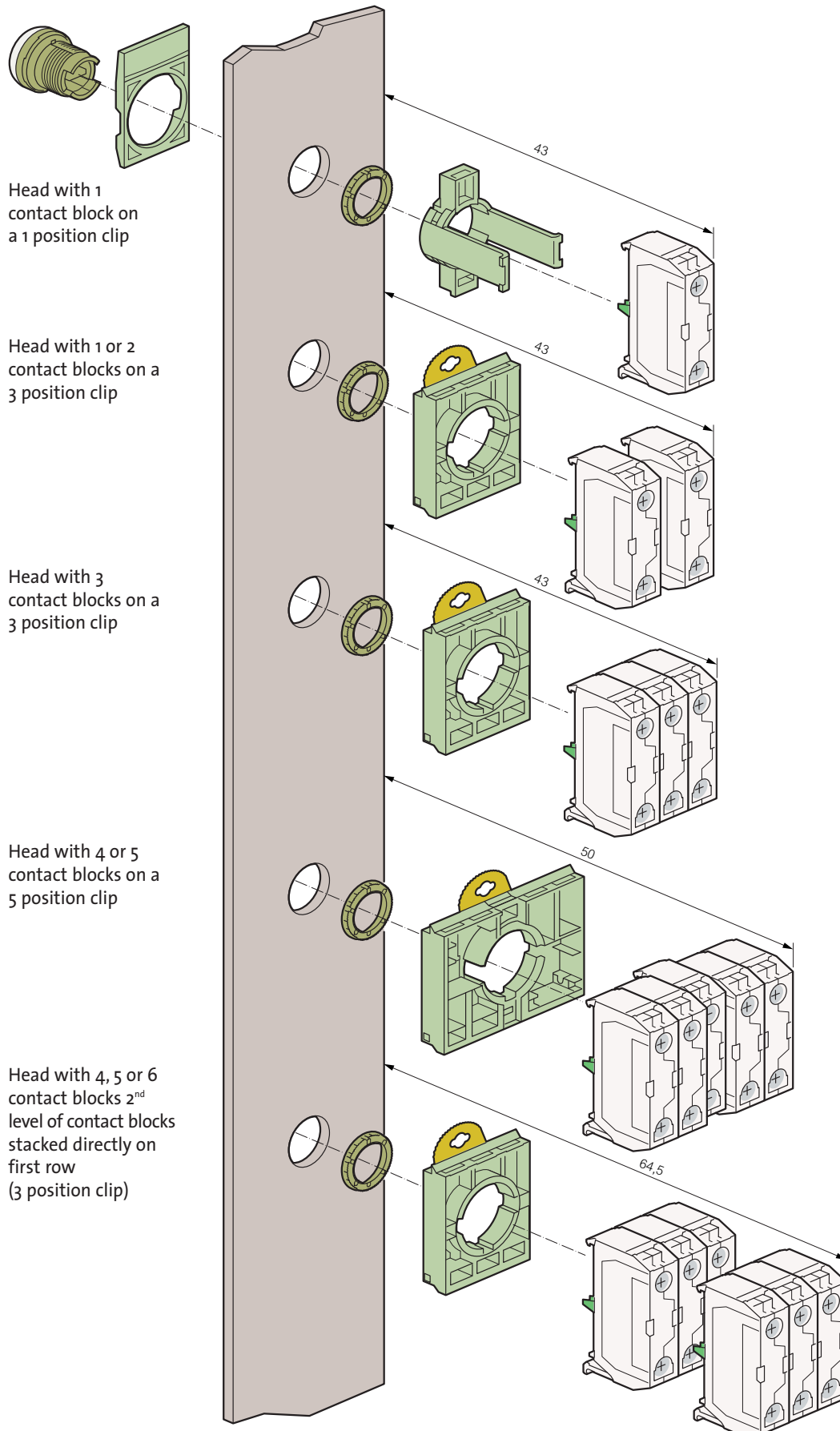
THICKNESS OF PANEL (E)

E = 1 to 6 mm



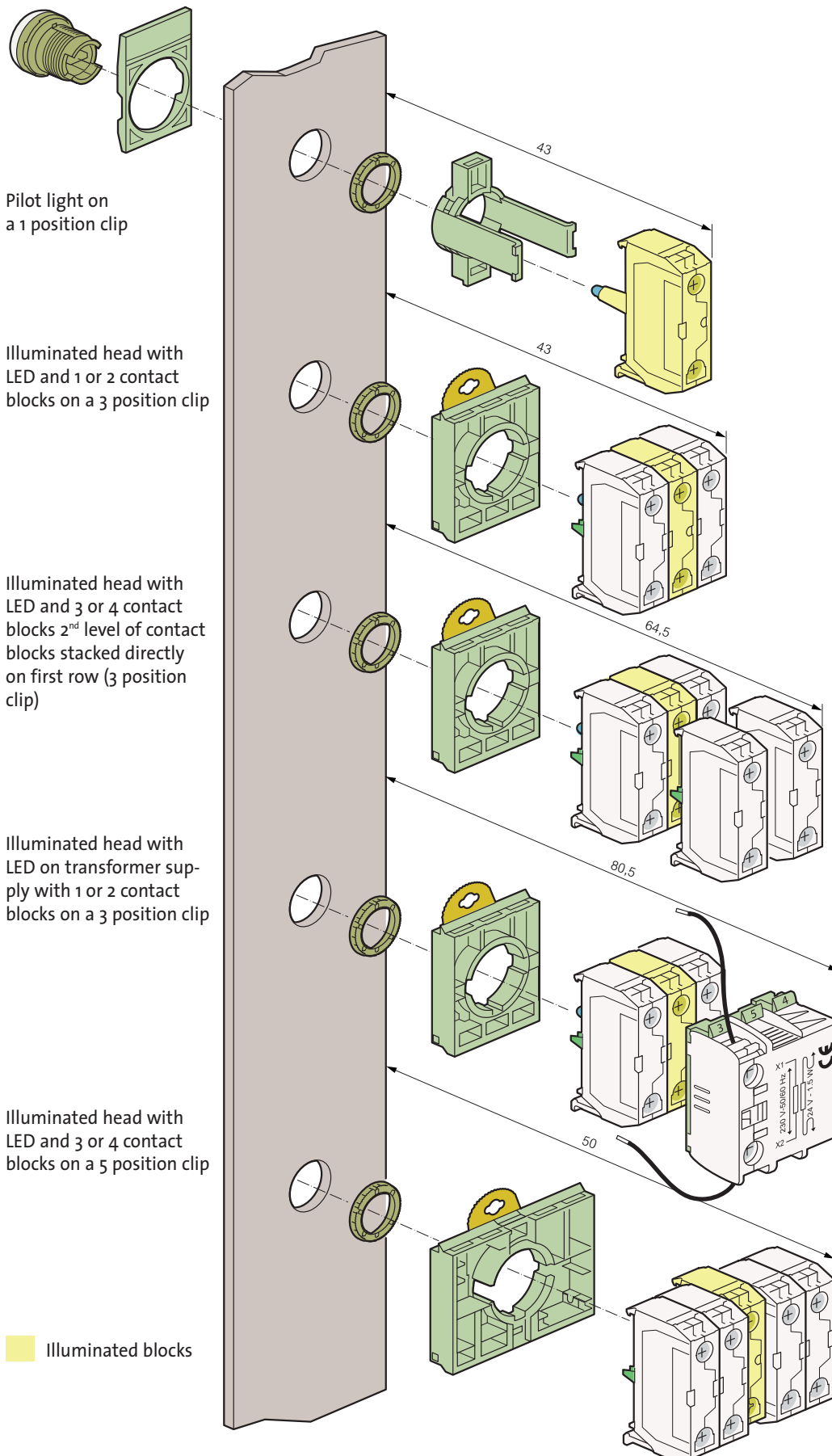
Mounting blocks $\varnothing 22$

NON ILLUMINATED



Mounting blocks ø 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 60947-1 UL 508
▶ NC contacts	Positive opening		IEC 60947-5-1
▶ Rated impulse voltage U _{imp} Pollution degree	6kV 3		
▶ Conventional thermal current in free air conditions	AC15: 10 A DC13: 2,5 A		IEC 60947-5-1
▶ Electrical ratings	Alternating current AC15 - A 600 U _e = 120 V, I _e = 6 A U _e = 240 V, I _e = 3 A U _e = 380 V, I _e = 1,9 A U _e = 480 V, I _e = 1,5 A U _e = 500 V, I _e = 1,4 A U _e = 600 V, I _e = 1,2 A Minimum operating current - standard blocks U _e = 24 V DC and I _e = 5 mA Failure rate < 10 ⁻⁸	Direct current DC13 - Q 600 U _e = 125 V, I _e = 0,55 A U _e = 250 V, I _e = 0,27 A U _e = 400 V, I _e = 0,15 A U _e = 500 V, I _e = 0,13 A U _e = 600 V, I _e = 0,1 A - golden contacts U _e = 5 V DC and I _e = 1 mA Failure rate < 10 ⁻⁸	IEC 60947-5-1
▶ Electrical operating life	1 million cycles for: - AC15 - B 300 U _e = 120 V, I _e = 3 A U _e = 240 V, I _e = 1,5 A	- DC13 - R 300 U _e = 125 V, I _e = 0,22 A U _e = 250 V, I _e = 0,1 A	
▶ 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 60947-1 UL 508
▶ NC contacts	Positive opening		IEC 60947-5-1
▶ Rated impulse withstanding voltage U _{imp} 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	Alternating current AC15 - A 300 U _e = 120 V, I _e = 6 A U _e = 240 V, I _e = 3 A Minimum current of use U _e = 24 V DC and I _e = 5 mA Failure rate < 10 ⁻⁸	Direct current DC13 - Q 300 U _e = 125 V, I _e = 0,55 A U _e = 250 V, I _e = 0,27 A - DC13 - R 300 U _e = 125 V, I _e = 0,22 A U _e = 250 V, I _e = 0,1 A	IEC 60947-5-1
▶ Electrical operating life	1 million cycles for: - AC15 - B 300 U _e = 120 V, I _e = 3 A U _e = 240 V, I _e = 1,5 A	- DC13 - R 300 U _e = 125 V, I _e = 0,22 A U _e = 250 V, I _e = 0,1 A	
▶ 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 60947-1 UL 508
▶ NC contacts	Positive opening		IEC 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	Direct current DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A	IEC 60947-5-1 IEC 60947-5-4
	Minimum current of use - standard blocks Ue = 24 V DC and Ie = 5 mA Failure rate < 10 ⁻⁸	- golden contacts Ue = 5 V DC and Ie = 1 mA Failure rate < 10 ⁻⁸	
▶ 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	Ø 1 mm		

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

Characteristics	Data	Standards
▶ Rated insulation voltage	300 V	IEC 60947-5-1
▶ Rated impulse voltage Uimp Pollution degree	4 kV (with filter block see p. 64) 3	IEC 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 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/ISO 13850: 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/ISO 13850 + NO + NC: 37 Push-turn mushroom head EN 418/ISO 13850 + 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 60947-5-5, the emergency stop function can be provided by an EN 418/ISO 13850 mushroom head combined with a "positive opening" NC contact block.

The mechanism of our EN 418/ISO 13850 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 EN 418/ISO 13850 mushroom heads also comply with the safety requirements detailed in standards EN 418 and ISO 13850.

Diagrams

MECHANICAL OPERATION

For 3 position selector switches

Handle position

(View from front of panel)



Back side view

Non operated block



Operated block



Contacts block actuation

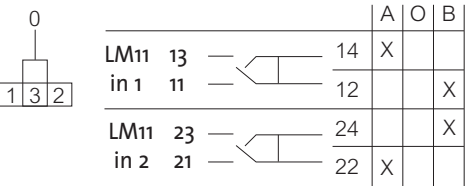
(View from front of panel)



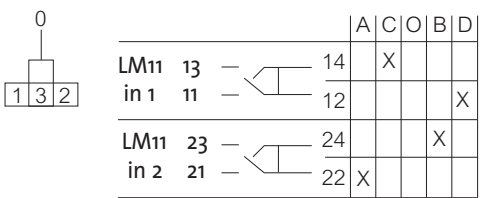
MECHANICAL OPERATION

For Joysticks

2 positions

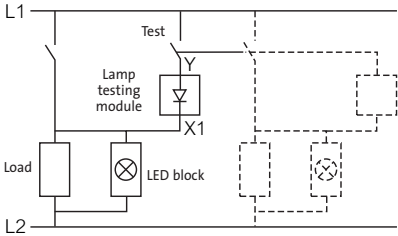


4 positions

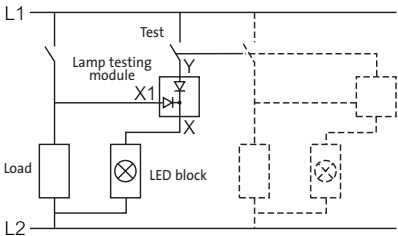


PUSH-TO-TEST LED PILOT LIGHT DIAGRAMS

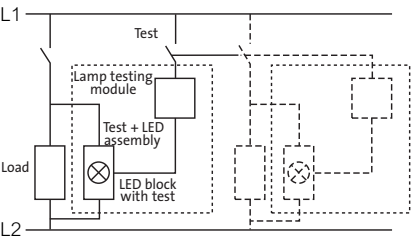
Lamp-testing module with 1 diode (33ET) for direct supply 24 V and 48 V



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

