

# Heads, blocks and connection...

designed to last!



## ► 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

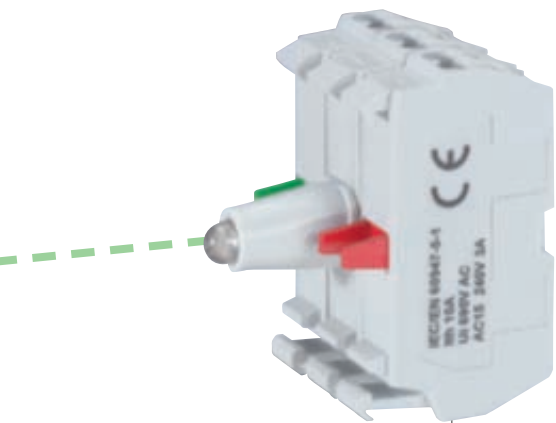
See pages 21 to 46

## ► 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**

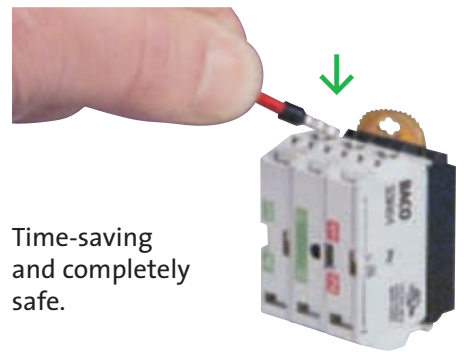
*“Imaginatively designed to be safe, robust and durable”*

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

See pages 48 to 64

► **CONNECTION**

**PLUG-IN TERMINALS - New**

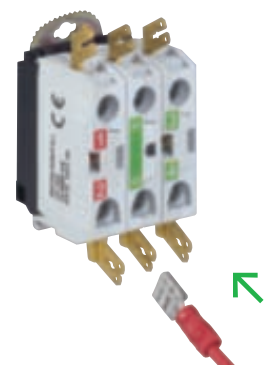


Time-saving and completely safe.

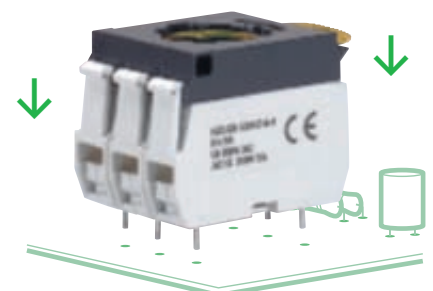
**SCREW TERMINALS**



**FASTON TERMINALS**



**PIN STYLE TERMINALS (FOR PCB)**



# New heads...

robust and clearly marked!



## ► ADVANTAGES

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

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

► **MARKING WITH LEGENDS**

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

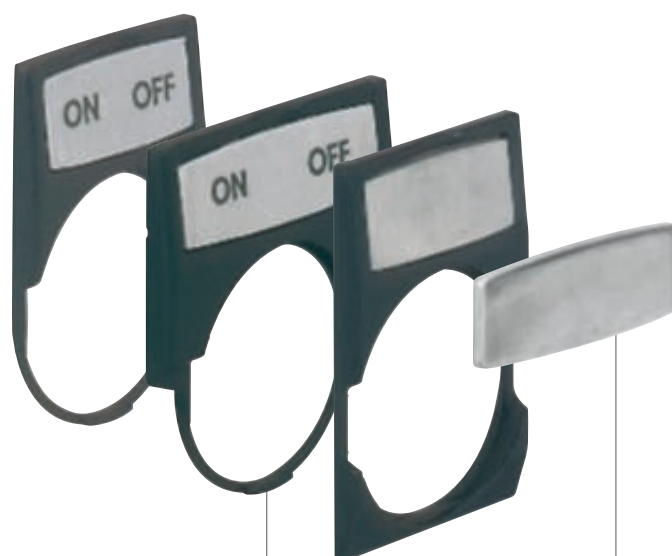


**Bezels**

Choice between:  
black or chrome

**Engraving**

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



**Frame**

round or square shape,  
30 or 40 mm wide

**Legend plate**

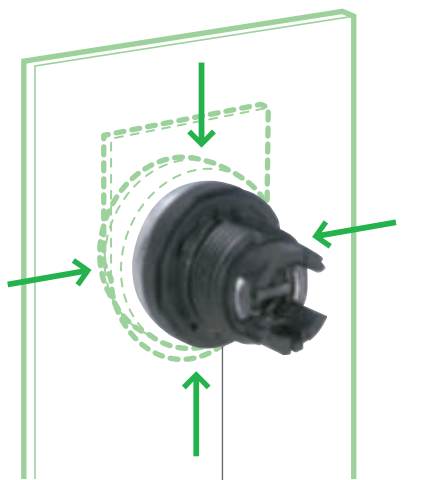
can be clipped into  
place after installation

► **READY-ASSEMBLED CONTROL STATION**

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



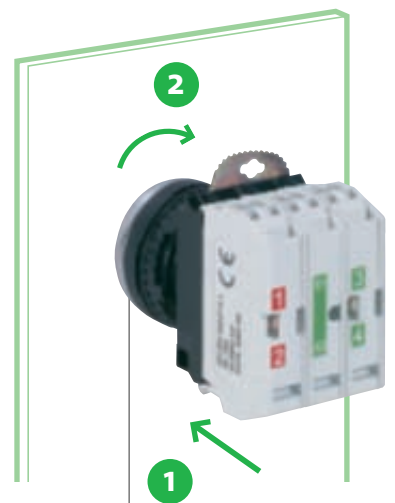
# Simplicity, speed, choice!



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



**Locking ring**  
to fix the head

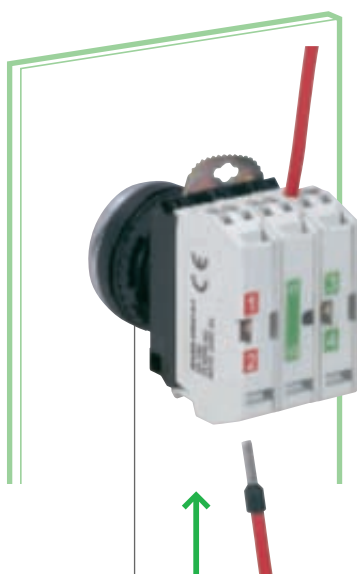


**Fixing**  
Locate block onto head  
and lock in place with  
rotating metallic latch

## ► ADVANTAGES

*Our objective is to simplify and shorten time of installation:*

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



**Quick connection**

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

► **CONFIGURATIONS**

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

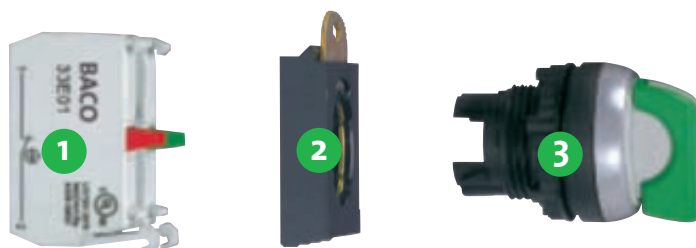
**COMPLETE UNITS**

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



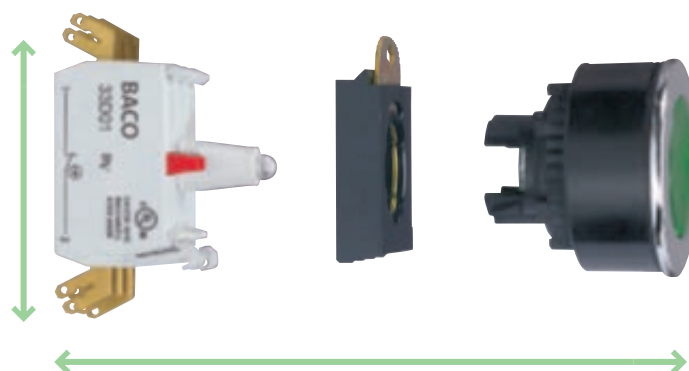
**SEPARATE UNITS**

- Maximum flexibility
- For numerous possible solutions



**CUSTOMISED SOLUTIONS (request form p. 79)**

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



# Complete units: Push-buttons ø 22

 Characteristics (p. 94)

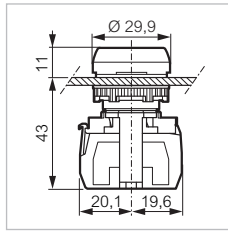
IP 66  
 Complete units consisting of:  
 - head  
 - clip and screw electrical blocks assembled  
 Plastic chrome bezel - Black bezel on request (form p. 79)  
 Conform to IEC 60947-5-1

## ► SPRING RETURN - NON ILLUMINATED

FLUSH Cat. No.

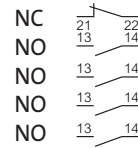


L21AA02A



**Without engraving**

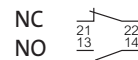
- Red
- Green
- Black
- Yellow
- Blue



- L21AA01B**
- L21AA02A**
- L21AA03A**
- L21AA04C**
- L21AA06A**

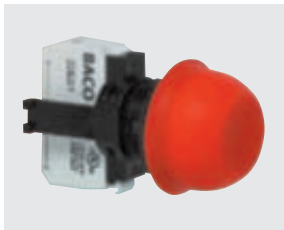
**With engraving**

- Red
- Green

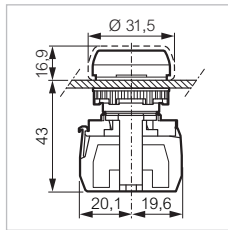


- L21AA81B**
- L21AA82B**

FLUSH Reinforced degree of protection: IP 67

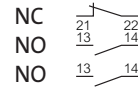


L22AF01A



Supplied with opaque shroud

- Red
- Green
- Black

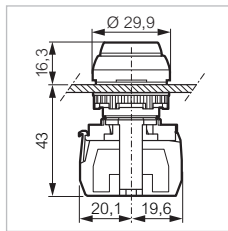


- L22AF01A**
- L22AF02A**
- L22AF03A**

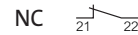
PROJECTING



L21AB01A

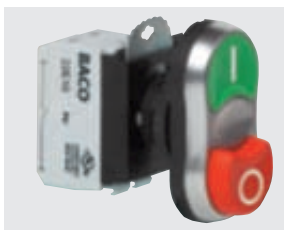


- Red

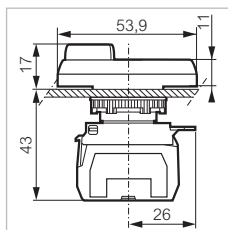


- L21AB01A**

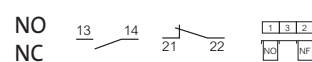
FLUSH-PROJECTING Double touch



L61QB21A



- Green - Flush
- Red - Projecting



- L61QB21A**

## Complete units: Selector switches $\varnothing 22$

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

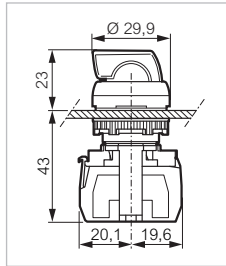
 Characteristics (p. 94)

### ► SELECTOR SWITCHES - NON ILLUMINATED

#### WITH HANDLE

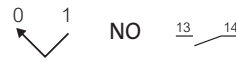
2 positions

Cat. No.



Stay-put positions - 90°

● Black



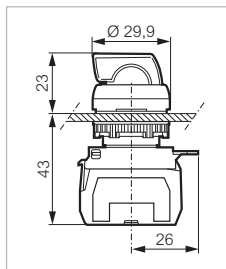
**L21KE03B**

L21KE03B

#### WITH HANDLE

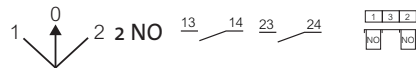
3 positions

Cat. No.



Stay-put positions - 45°

● Black

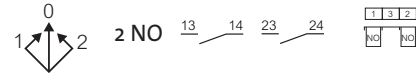


**L21MA03A**

L21MA03A

Spring return to 0 - 45°

● Black

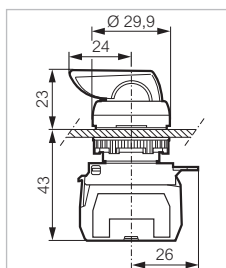


**L21MD03A**

#### WITH LONG HANDLE

3 positions

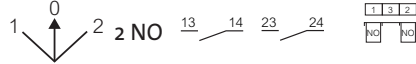
Cat. No.



Kontakt

Stay-put positions - 45°

● Black

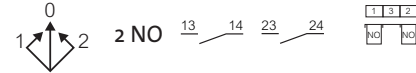


**L21MR03A**

L21MR03A

Spring return to 0 - 45°

● Black

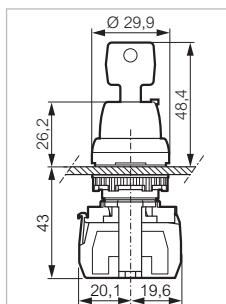


**L21MU03B**

#### WITH KEY

2 positions

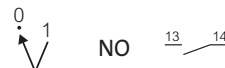
Cat. No.



Supplied with 2 keys profile n°455

Stay-put positions - 45°

Key free  
 in position 0



**L21LA00G**

L21LA00G

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



## Complete units: Mushroom heads $\varnothing$ 22

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



Characteristics (p. 94)

### ► MUSHROOM HEADS - NON ILLUMINATED

**$\varnothing$  40 - SPRING RETURN**

Push


Cat. No.



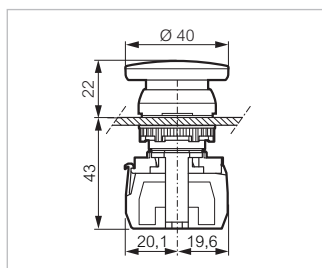
L21AD01C

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

● Red

NC 

**L21AD01C**



**$\varnothing$  40 - STAY-PUT**

Push-turn to reset


Cat. No.



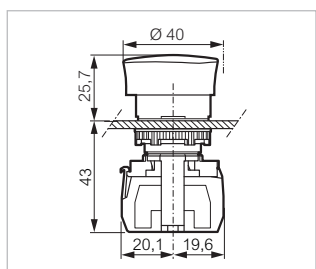
L22ED01D

Black bezel

● Red

NC 

**L22ED01D**



# Complete units: Mushroom heads $\varnothing$ 22

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

 Characteristics (p. 94)

## ► MUSHROOM HEADS - NON ILLUMINATED (CONTINUED)

$\varnothing$  40 - STAY-PUT

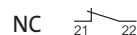
Push-pull to reset

Cat. No.

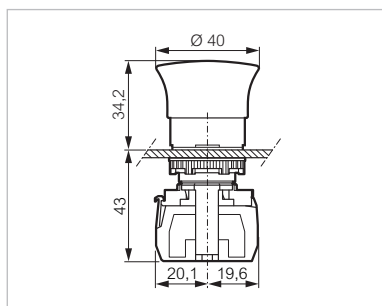


L22DD01A

● Red



**L22DD01A**



$\varnothing$  40 - STAY-PUT

Key to reset

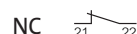
Cat. No.



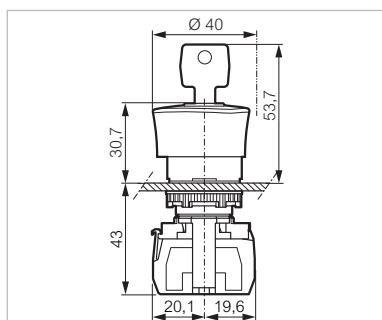
L22GM01E

Supplied with 2 keys profile n°455

● Red



**L22GM01E**



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

## Complete units: Mushroom heads $\varnothing 22$

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

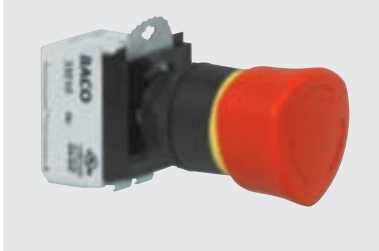
 Characteristics (p. 94)

### ► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

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

Push-turn to reset

Cat. No.

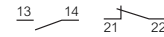


L22ER01D

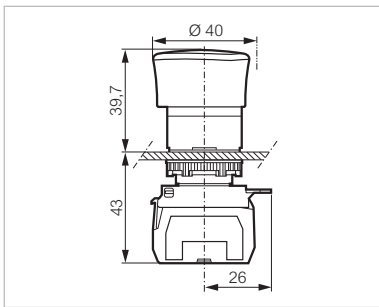
Head position visible from the side with yellow collar  
 Compliant with the requirements of emergency stop:  
 IEC 60947-5-5 / EN 418/ISO 13850

● Red

NO + NC



**L22ER01D**



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

Push-pull to reset

Cat. No.

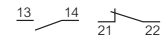


L22DR01B

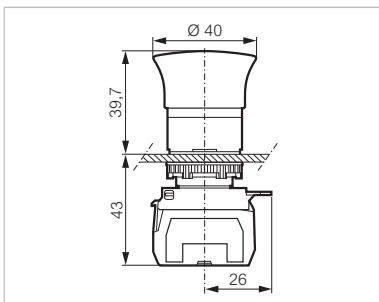
Head position visible from the side with yellow collar  
 Compliant with the requirements of emergency stop:  
 IEC 60947-5-5 / EN 418/ISO 13850

● Red

NO + NC



**L22DR01B**



## Complete units: Mushroom heads $\varnothing$ 22

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

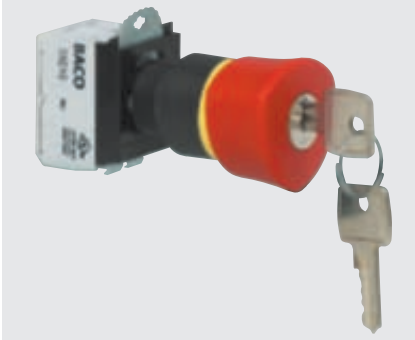
 Characteristics (p. 94)

### ► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

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

Key to reset

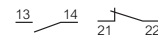
Cat. No.



L22GR01B

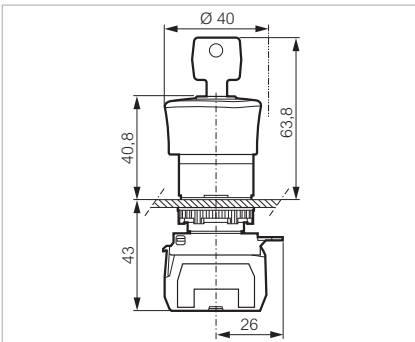
Double position indicator: head and collar  
 Compliant with the requirements of emergency stop:  
 IEC 60947-5-5 / EN 418/ISO 13850  
 Supplied with 2 keys profile n°455

● Red

NO + NC 



**L22GR01B**



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

Push-pull to reset with flag indicator

Cat. No.



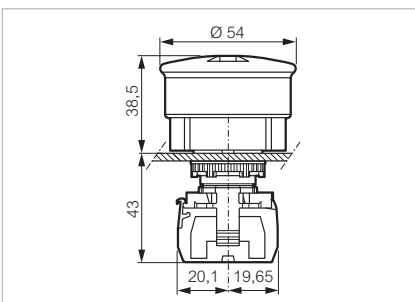
L22DU01G

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

● Red

NC 

**L22DU01G**



# Complete units: Pushbuttons $\varnothing$ 22

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

 Characteristics (p. 94)

## ► SPRING RETURN - ILLUMINATED

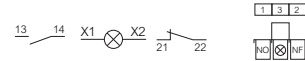
### FLUSH

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

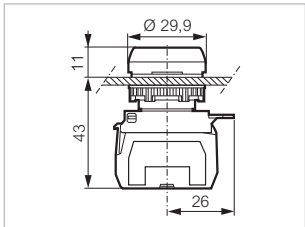
- L21AH10M**
- L21AH20M**

**230 V**

- Red
- Green

- NO+NC
- NO+NC

- L21AH10H**
- L21AH20H**

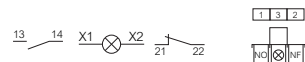


### TWIN TOUCH - FLUSH-PROJECTING



L61QK21H

LED blocks  
 Central part illuminated



**24 V**

- Green
- Red

- NO
- NC

- L61QK21L**

**130 V**

- Green
- Red

- NO
- NC

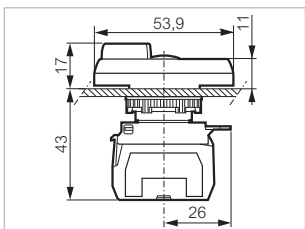
- L61QK21M**

**230 V**

- Green
- Red

- NO
- NC

- L61QK21H**



## Complete units: Selector switches $\varnothing$ 22

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

 Characteristics (p. 94)

### ▶ SELECTOR SWITCHES - ILLUMINATED

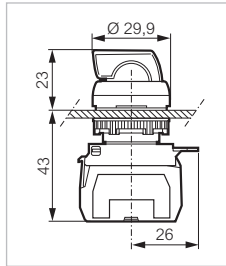
WITH HANDLE

2 positions

Cat. No.



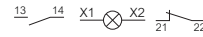
L21KG10C



LED blocks

Stay-put positions -  $45^\circ$   
 24 V

- Red
- Green
- Black



NO + NC  
 NO + NC  
 NO + NC



**L21KG10C**  
**L21KG20E**  
**L21KG30B**

## Complete units: Pilot lights $\varnothing$ 22

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

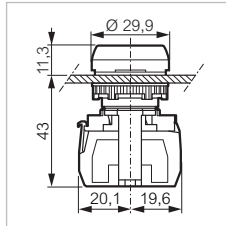
 Characteristics (p. 94)

### ▶ 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)

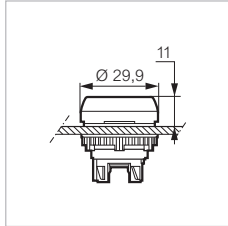
## ► PUSH-BUTTONS - NON ILLUMINATED

### 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)



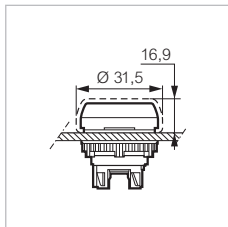
L21AA00

### 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 $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

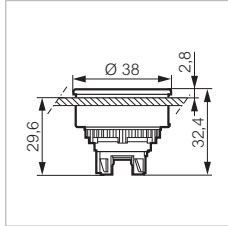
## ► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

### SPRING RETURN - SUPER FLUSH

Cat. No.



L23AA02



Metallic chrome bezel  
 Cut-out  $\varnothing$  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

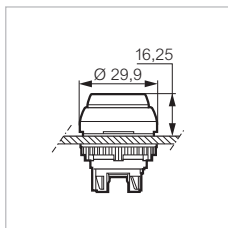
- L23AA31|\_|\_|\_|
- L23AA32|\_|\_|\_|
- L23AA33|\_|\_|\_|
- L23AA34|\_|\_|\_|
- L23AA35|\_|\_|\_|
- L23AA36|\_|\_|\_|

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

### SPRING RETURN - PROJECTING



L21AB01



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

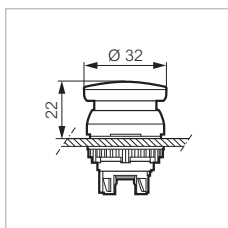
- L21AB01**
- L21AB02**
- L21AB03**
- L21AB04**
- L21AB05**
- L21AB06**

### SPRING RETURN - MUSHROOM HEAD $\varnothing$ 32

Push



L21AC03



- Red
- Green
- Black
- Yellow

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

# Separate units $\varnothing$ 22: Heads

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

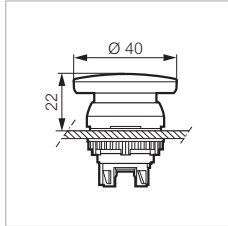
 Characteristics (p. 94)

## ► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

### SPRING RETURN - MUSHROOM HEAD $\varnothing$ 40

Push

Cat. No.



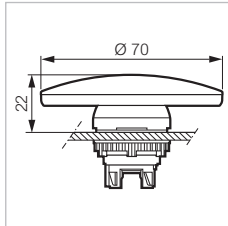
- Red
- Green
- Black
- Yellow
- Blue

- L21AD01**
- L21AD02**
- L21AD03**
- L21AD04**
- L21AD06**

L21AD01

### SPRING RETURN - MUSHROOM HEAD $\varnothing$ 70

Push



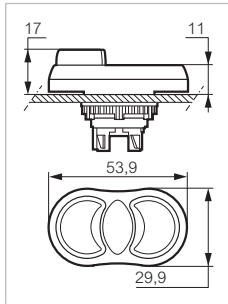
- Red
- Black





- L21AE01**
- L21AE03**

L21AE03

### SPRING RETURN - FLUSH-PROJECTING

Double touch



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

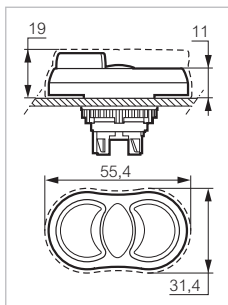
**L61QB21**

**L61QB21B**

L61QB21

### SPRING RETURN - FLUSH-PROJECTING

Double touch - reinforced degree of protection: IP 67



Supplied with transparent shroud

-  Green
-  Red

**L62QM21**

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)

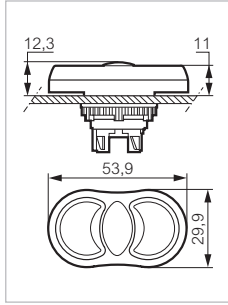
### SPRING RETURN - FLUSH-FLUSH









#### Double touch

Cat. No.



L61QA21



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

**L61QA21**

L61QA22

L61QA22K

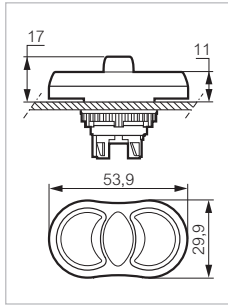
L61QA33C







### SPRING RETURN - FLUSH-PROJECTING-FLUSH

#### Triple touch



L61BA22



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

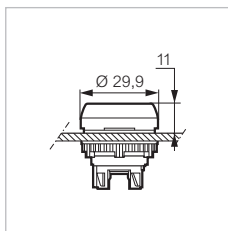
**L61BA22**

L61BA22B

### STAY-PUT - FLUSH



L21CA01



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

**L21CA01**  
**L21CA02**  
**L21CA03**  
**L21CA04**  
**L21CA05**  
**L21CA06**

# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

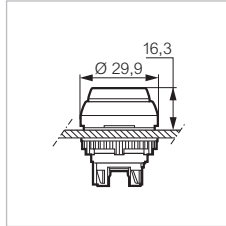
## ► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

### STAY-PUT - PROJECTING

Cat. No.



L21CB02



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

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

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

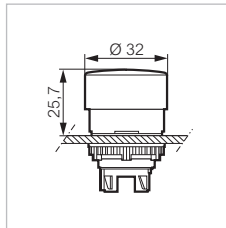
## ► MUSHROOM HEADS - NON ILLUMINATED

### $\varnothing$ 32 - STAY-PUT

Push-turn to reset



L22EC01



- Red
- Green
- Black
- Yellow

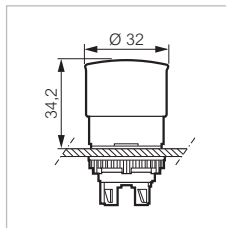
- L22EC01**
- L22EC02**
- L22EC03**
- L22EC04**

### $\varnothing$ 32 - STAY-PUT

Push-pull to reset



L22DC01



- Red

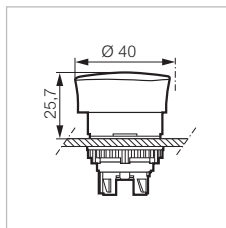
L22DC01

### $\varnothing$ 40 - STAY-PUT

Push-turn to reset



L22ED01



Without engraving

- Red
- Green
- Black
- Yellow

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

With engraving

- Red - engraving STOP - STOP - STOP

**L22ED01B**

# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

## ► MUSHROOM HEAD - NON ILLUMINATED (CONTINUED)

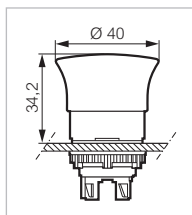
$\varnothing$  40 - STAY-PUT

Push-pull to reset

Cat. No.



L22DD01



- Red
- Black

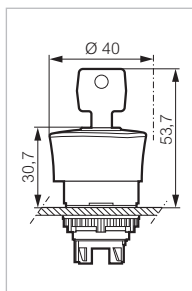
**L22DD01**  
**L22DD03**

$\varnothing$  40 - STAY-PUT

Key to reset



L22GM01



Supplied with 2 keys profile n° 455

- Red

**L22GM01**

## ► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

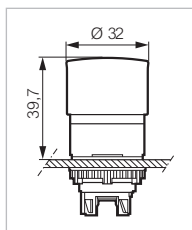
$\varnothing$  32 EN 418/ISO 13850 - STAY-PUT

Push-pull

Cat. No.



L22DQ01



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

- Red

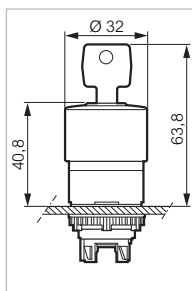
**L22DQ01**

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

Key to reset



L22GQ01



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

- Red

**L22GQ01**

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

# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

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

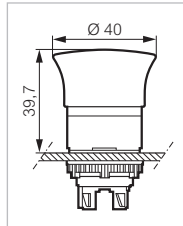
$\varnothing$  40 EN 418/ISO 13850 - STAY-PUT

Push-pull to reset

Cat. No.



L22DR01



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

● Red

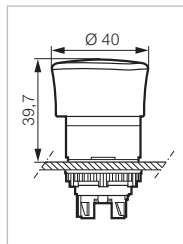
**L22DR01**

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

Push-turn to reset



L22ER01



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

● Red

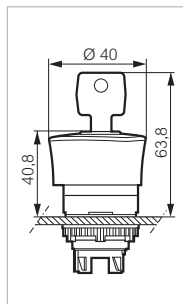
**L22ER01**

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

Key to reset



L22GR01



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

● Red

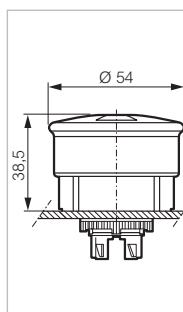
**L22GR01**

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

Push-pull to reset with flag indicator



L22DU01



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

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

**L22DU01A**  
**L22DU01**

# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

## ▶ SELECTOR SWITCHES - NON ILLUMINATED

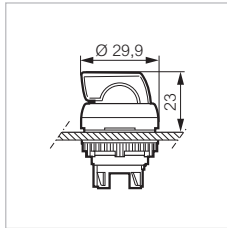
WITH HANDLE

2 positions

Cat. No.



L21KA03



**Stay-put positions - 45°**

- Red
- Green
- Black
- Grey



**L21KA01**  
**L21KA02**  
**L21KA03**  
**L21KA08**

**Spring return - 45°**

- Red
- Green
- Black
- Grey



**L21KB01**  
**L21KB02**  
**L21KB03**  
**L21KB08**

**Stay-put positions - 45°**

- Red
- Green
- Black
- Grey



**L21KC01**  
**L21KC02**  
**L21KC03**  
**L21KC08**

**Spring return - 45°**

- Red
- Green
- Black
- Grey



**L21KD01**  
**L21KD02**  
**L21KD03**  
**L21KD08**

**Stay-put positions - 90°**

- Red
- Green
- Black
- Grey



**L21KE01**  
**L21KE02**  
**L21KE03**  
**L21KE08**

**Stay-put positions - 90°**

- Red
- Green
- Black
- Grey



**L21KF01**  
**L21KF02**  
**L21KF03**  
**L21KF08**

# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

## ▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

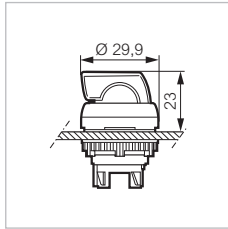
WITH HANDLE

3 positions

Cat. No.



L21MA03



### Stay-put positions - 45°

- Red
- Green
- Black
- Grey



**L21MA01**  
**L21MA02**  
**L21MA03**  
**L21MA08**

### Spring return from left to 0 - 45°

- Red
- Green
- Black
- Grey



**L21MB01**  
**L21MB02**  
**L21MB03**  
**L21MB08**

### Spring return from right to 0 - 45°

- Red
- Green
- Black
- Grey



**L21MC01**  
**L21MC02**  
**L21MC03**  
**L21MC08**

### Spring return to 0 - 45°

- Red
- Green
- Black
- Grey



**L21MD01**  
**L21MD02**  
**L21MD03**  
**L21MD08**

### Stay-put positions - 90°

- Red
- Green
- Black
- Grey



**L21MK01**  
**L21MK02**  
**L21MK03**  
**L21MK08**



L21MA08



# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

## ▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

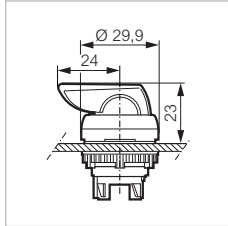
WITH LONG HANDLE

2 positions

Cat. No.



L21KP03



### Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21KP01  
 L21KP02  
**L21KP03**  
 L21KP08

### Spring return - 45°

- Red
- Green
- Black



L21KQ01  
 L21KQ02  
**L21KQ03**

### Stay-put positions - 45°

- Red
- Green
- Black



L21KR01  
 L21KR02  
**L21KR03**

### Spring return - 45°

- Red
- Green
- Black



L21KS01  
 L21KS02  
**L21KS03**

### Stay-put positions - 90°

- Red
- Green
- Black



L21KT01  
 L21KT02  
**L21KT03**

### Stay-put positions - 90°

- Red
- Green
- Black



L21KU01  
 L21KU02  
**L21KU03**

# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

## ▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

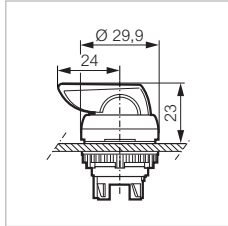
WITH LONG HANDLE

3 positions

Cat. No.



L21MR03



### Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21MR01  
 L21MR02  
**L21MR03**  
 L21MR08

### Spring return from left to 0 - 45°

- Red
- Green
- Black
- Grey



L21MS01  
 L21MS02  
**L21MS03**  
 L21MS08

### Spring return from right to 0 - 45°

- Red
- Green
- Black
- Grey



L21MT01  
 L21MT02  
**L21MT03**  
 L21MT08

### Spring return to 0 - 45°

- Red
- Green
- Black
- Grey



L21MU01  
 L21MU02  
**L21MU03**  
 L21MU08

# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

## ▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

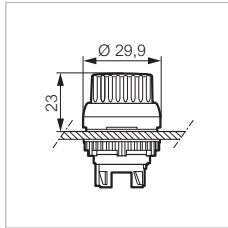
### WITH KNOB

2 positions

Cat. No.



L21TF03



#### Stay-put positions - 45°

- Black



**L21TA03**

#### Spring return - 45°

- Black



**L21TB03**

#### Stay-put positions - 90°

- Black



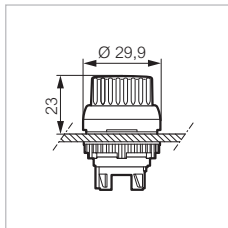
**L21TF03**

### WITH KNOB

3 positions



L21UA03



#### Stay-put positions - 45°

- Black



**L21UA03**

#### Spring return from left to 0 - 45°

- Black



**L21UB03**

#### Spring return from right to 0 - 45°

- Black



**L21UC03**

#### Spring return to 0 - 45°

- Black



**L21UD03**

#### Stay-put positions - 90°

- Black



**L21UK03**

# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

## ▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

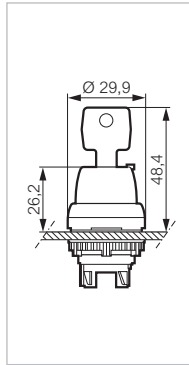
WITH KEY

2 positions

Cat. No.



L21LG00



Key free in position:

Supplied with 2 keys profile n° 455

Stay-put positions - 45°

● Black



0

**L21LA00**

Spring return - 45°

● Black



0

**L21LB00**

Stay-put positions - 45°

● Black



0

**L21LC00**

Spring return - 45°

● Black



0

**L21LD00**

Stay-put positions - 90°

● Black



0

**L21LF00**

Stay-put positions - 90°

● Black



0 - 1

**L21LG00**

Stay-put positions - 90°

● Black



0 - 1

**L21LH00**

Stay-put positions - 90°

● Black



1

**L21LK00**

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

# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

## ▶ SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

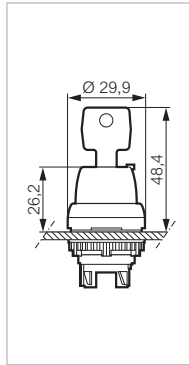
WITH KEY

3 positions

Cat. No.



L21NA00



Key free in position:

Supplied with 2 keys profile n° 455

**Stay-put positions - 45°**

● Black



0

**L21NA00**

**Spring return from left to 0 - 45°**

● Black



0

**L21NB00**

**Spring return from right to 0 - 45°**

● Black



0

**L21NC00**

**Spring return to 0 - 45°**

● Black



0

**L21ND00**

**Stay-put positions - 45°**

● Black



1 - 2

**L21NE00**

**Spring return from right to 0 - 45°**

● Black



1

**L21NJ00**

**Stay-put positions - 90°**

● Black



1 - 0 - 2

**L21NK00**

**Stay-put positions - 90°**

● Black



0

**L21NL00**

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

# Separate units $\varnothing$ 22: Heads

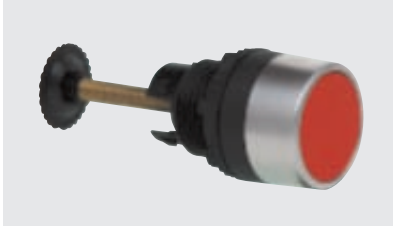
IP 65  
 With locking ring  
 Plastic chrome bezel  
 Black bezel on request (form p. 79)  
 Conform to IEC 60947-5-1

 Characteristics (p. 94)

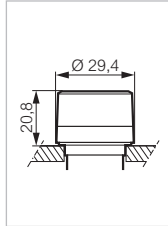
## ► ADJUSTABLE MECHANICAL PUSH/RESET BUTTON - NON ILLUMINATED

### 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

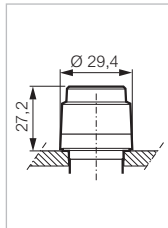
- Red
- Green
- Black
- Yellow
- White
- Blue

- 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**

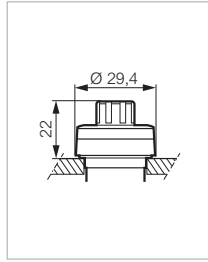
# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

## ▶ BUTTON FOR POTENTIOMETER - NON ILLUMINATED

Cat. No.



Head + mounting base for potentiometer  
Plastic chrome bezel

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

**L21RP03**

L21RP03

## ▶ JOYSTICKS - NON ILLUMINATED

Cat. No.



LM2F

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

**Head does not lock in position 0**

**2 directions - 3 positions**

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

**LM2F**  
**LM2A**

**4 directions - 5 positions**

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

**LM4F**

4 spring-return

A  
|  
C → 0 ← D  
|  
B

**LM4A**

**Head locks in position 0**

**2 directions - 3 positions**

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

**LMV2F**  
**LMV2A**

**4 directions - 5 positions**

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

**LMV4F**

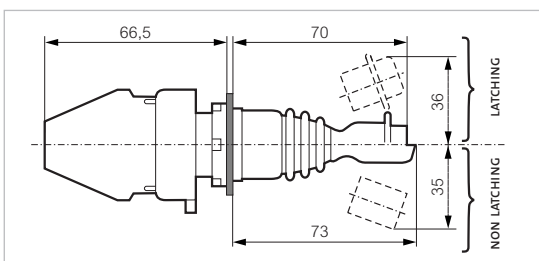
4 spring-return

A  
|  
C → 0 ← D  
|  
B

**LMV4A**



LMV4F



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

# Separate units 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)

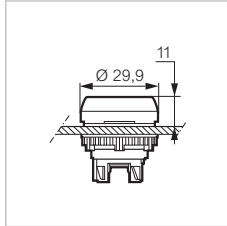
## ► PUSH-BUTTONS - ILLUMINATED

### 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**

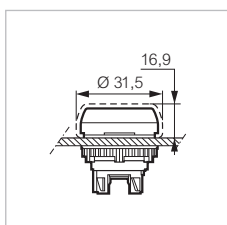
#### Button plates (p. 74)

### SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



L22AP40



Supplied with transparent shroud

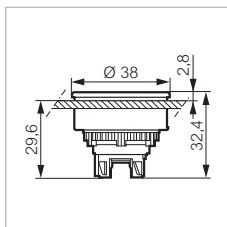
- Red
- Green
- Yellow
- White
- Blue

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□□□□

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



# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

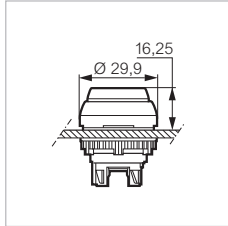
## ► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

### SPRING RETURN - PROJECTING

Cat. No.



L21AK20



- Red
- Green
- Yellow
- White
- Blue

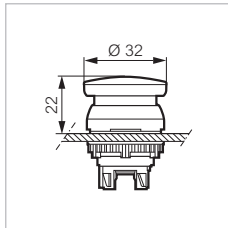
- L21AK10**
- L21AK20**
- L21AK40**
- L21AK50**
- L21AK60**

### SPRING RETURN - MUSHROOM HEAD $\varnothing$ 32

Push



L21AL10



- Red
- Green
- Yellow
- White

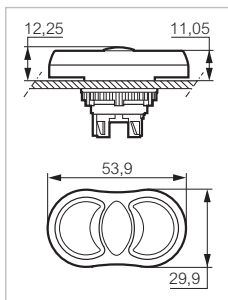
- L21AL10**
- L21AL20**
- L21AL40**
- L21AL50**

### SPRING RETURN - FLUSH-FLUSH

Double touch



L61QH21



Central part illuminated

- ⓘ Green
- Ⓢ Red
- Green
- Green
- Green engraving START
- Red engraving STOP

- L61QH21**
- L61QH22V**
- L61QH21A**

# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

## ► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

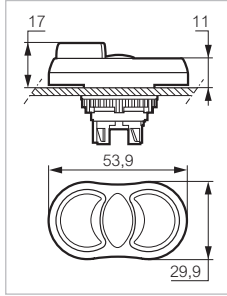
### SPRING RETURN - FLUSH-PROJECTING

Double touch







Cat. No.



L61QK21



Central part illuminated

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

**L61QK21**

**L61QK53**

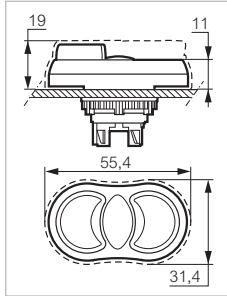
**L61QK21A**

### SPRING RETURN - FLUSH-PROJECTING

Double touch - reinforced degree of protection: IP 67



L62QN21



Supplied with transparent shroud  
 Central part illuminated

-  Green
-  Red

**L62QN21**

# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

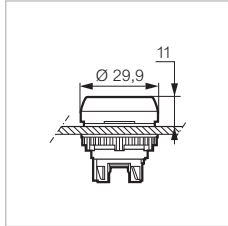
## ► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

### STAY-PUT - FLUSH

Réf.



L21CH20



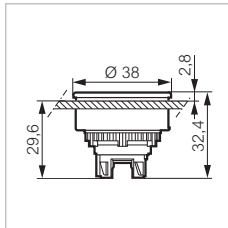
- Red
- Green
- Yellow
- White
- Blue

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

### STAY-PUT - SUPER FLUSH



L23CH10



Metallic chrome bezel  
 Drilling  $\varnothing$  30,5 mm

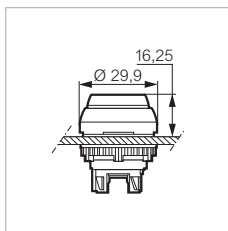
- Red
- Green
- Yellow
- White
- Blue

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

### STAY-PUT - PROJECTING



L21CK20



- Red
- Green
- Yellow
- White
- Blue

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

# Separate units $\varnothing$ 22: Heads

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

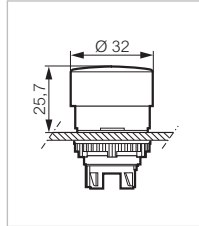
 Characteristics (p. 94)

## ► MUSHROOM HEADS - ILLUMINATED

$\varnothing$  32 - STAY-PUT

Push-turn to reset

Cat. No.



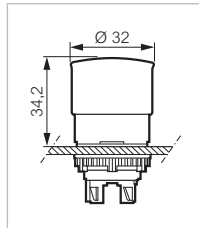
● Red

**L22EL10**

L22EL10

$\varnothing$  32 - STAY-PUT

Push-pull to reset



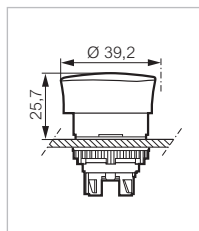
● Red

**L22DL10**

L22DL10

$\varnothing$  40 - STAY-PUT

Push-turn to reset



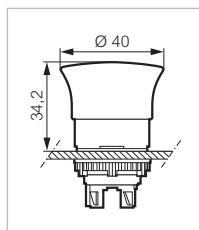
● Red  
 ● Green  
 ● Yellow

**L22EM10**  
**L22EM20**  
**L22EM40**

L22EM10

$\varnothing$  40 - STAY-PUT

Push-pull to reset



● Red  
 ● Green  
 ● Yellow  
 ○ White

**L22DM10**  
**L22DM20**  
**L22DM40**  
**L22DM50**

L22DM10

# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

## ► EN 418/ISO 13850 EMERGENCY STOP - ILLUMINATED

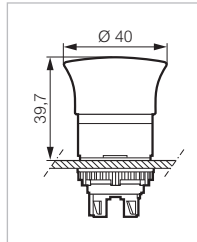
$\varnothing$  40 EN 418/ISO 13850- STAY-PUT

Push-pull to reset

Cat. No.



L22DN10



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

● Red

**L22DN10**

## ► SELECTOR SWITCHES - ILLUMINATED

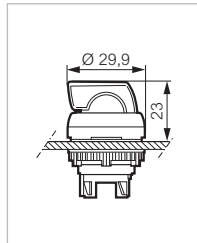
WITH HANDLE

2 positions

Cat. No.



L21KJ30



Stay-put positions - 45°

● Red  
 ● Green  
 ● Black



**L21KG10**  
**L21KG20**  
**L21KG30**

Spring return- 45°

● Red  
 ● Green  
 ● Black



**L21KH10**  
**L21KH20**  
**L21KH30**

Stay-put positions - 45°

● Red  
 ● Green  
 ● Black



**L21KJ10**  
**L21KJ20**  
**L21KJ30**

Spring return- 45°

● Red  
 ● Green  
 ● Black



**L21KK10**  
**L21KK20**  
**L21KK30**

Stay-put positions - 90°

● Red  
 ● Green  
 ● Black



**L21KL10**  
**L21KL20**  
**L21KL30**

Stay-put positions - 90°

● Red  
 ● Green  
 ● Black



**L21KM10**  
**L21KM20**  
**L21KM30**

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

# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

## ▶ SELECTOR SWITCHES - ILLUMINATED

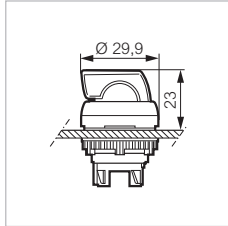
WITH HANDLE

3 positions

Cat. No.



L21ME10



### Stay-put positions - 45°

- Red
- Green
- Black



**L21ME10**  
**L21ME20**  
**L21ME30**

### Spring return from left to 0 - 45°

- Red
- Green
- Black



**L21MF10**  
**L21MF20**  
**L21MF30**

### Spring return from right to 0 - 45°

- Red
- Green
- Black



**L21MG10**  
**L21MG20**  
**L21MG30**

### Spring return to 0 - 45°

- Red
- Green
- Black



**L21MH10**  
**L21MH20**  
**L21MH30**

### Stay-put positions - 90°

- Red
- Green
- Black



**L21MJ10**  
**L21MJ20**  
**L21MJ30**

# Separate units $\varnothing$ 22: Heads

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

 Characteristics (p. 94)

## ▶ SELECTOR SWITCHES - ILLUMINATED (CONTINUED)

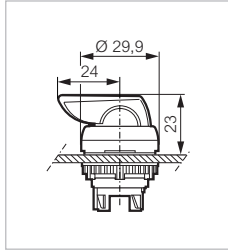
### WITH LONG HANDLE

2 positions

Cat. No



L21KV30



#### Stay-put positions - 45°

- Black



**L21KV30**

#### Stay-put positions - 45°

- Black



**L21KX30**

#### Spring return - 45°

- Black



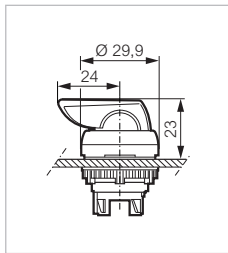
**L21KY30**

### WITH LONG HANDLE

3 positions



L21ML30



#### Stay-put positions - 45°

- Black



**L21ML30**

#### Spring return from left to 0 - 45°

- Black



**L21MM30**

#### Spring return from right to 0 - 45°

- Black



**L21MN30**

#### Spring return to 0 - 45°

- Black



**L21MP30**

# Pilot lights $\varnothing$ 22

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

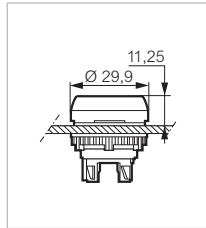
 Characteristics (p. 94)

## ▶ 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

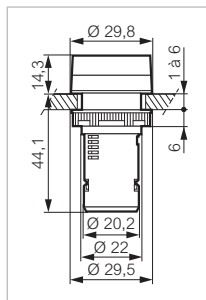
L20SE31|\_|\_|\_|  
 L20SE32|\_|\_|\_|  
 L20SE34|\_|\_|\_|  
 L20SE35|\_|\_|\_|  
 L20SE36|\_|\_|\_|

## ▶ 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 $\varnothing$ 22

IP 66  
Direct supply



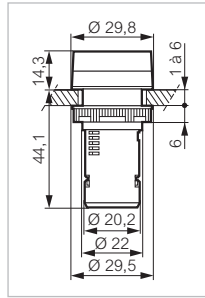
Characteristics (p. 94)

## ▶ 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

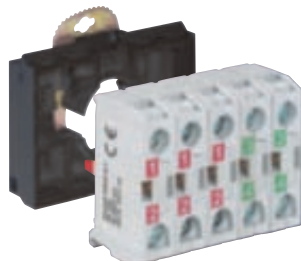
## ► CLIP

*"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

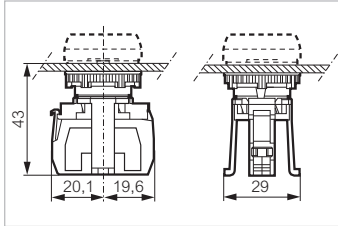
#### SCREW TERMINALS

#### 1 position clip

Cat. No.



331E10



**331E10**

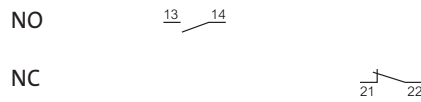
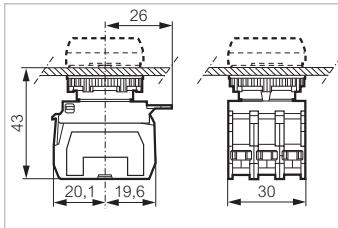
**331E01**

#### SCREW TERMINALS

#### 3 position clip

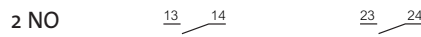


333E21

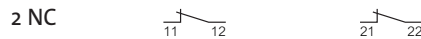


**333E10**

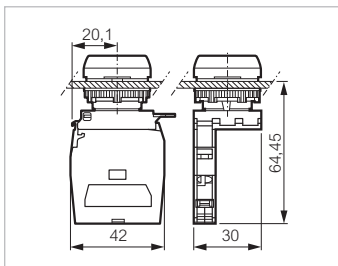
**333E01**



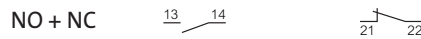
**333E20**



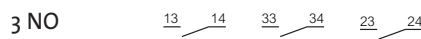
**333E02**



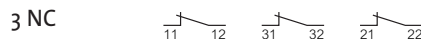
NO/NC



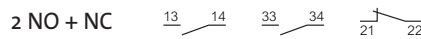
**333E11**



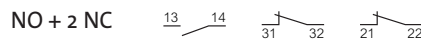
**333E30**



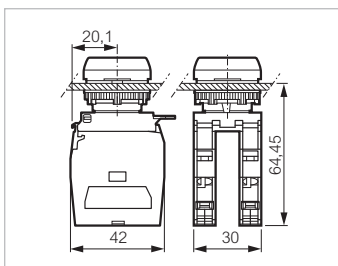
**333E03**



**333E21**



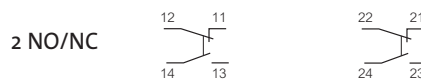
**333E12**



2 NO/NC



**334E11**



**334E22**

## 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)

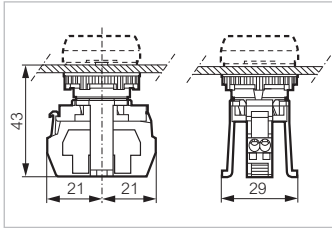
#### PLUG-IN TERMINALS

#### 1 position clip

Cat. No.



331ER01



**331ER10**

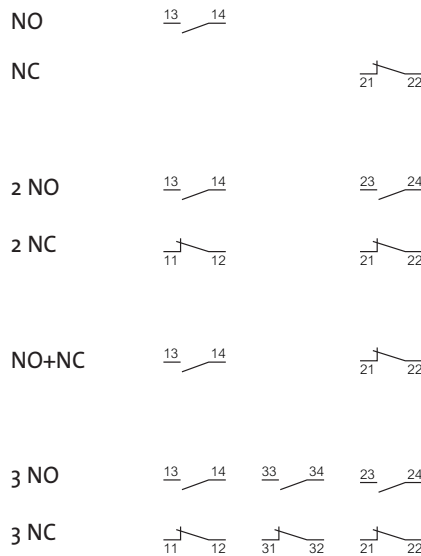
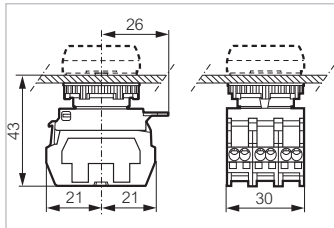
**331ER01**

#### PLUG-IN TERMINALS

#### 3 position clip



333ER11



**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)

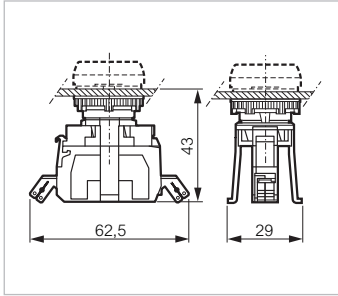
#### FASTON TERMINALS

#### 1 position clip

Cat. No.



331ED10



NO  13 14  
 NC  21 22

**331ED10**

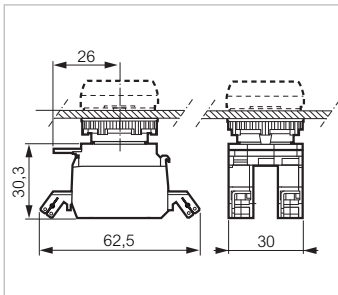
**331ED01**



#### FASTON TERMINALS

#### 3 position clip



333ED11



NO + NC  13 14  21 22

**333ED11**

## Separate units: Blocks sub-assemblies

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

 Characteristics (p. 94)

### ► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS

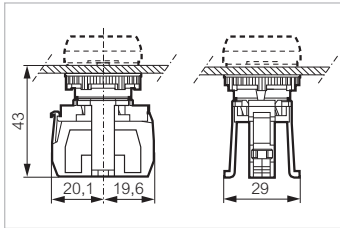
#### SCREW TERMINALS

#### 1 position clip: LED block

Cat. No.



331EAGL



#### 24 V

- White
- Red
- Green
- Blue
- Yellow

**331EAWL**  
**331EARL**  
**331EAGL**  
**331EABL**  
**331EAYL**

#### 130 V

- White
- Red
- Green
- Blue
- Yellow

**331EAWM**  
**331EARM**  
**331EAGM**  
**331EABM**  
**331EAYM**

#### 230 V

- White
- Red
- Green
- Blue
- Yellow

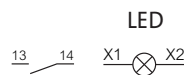
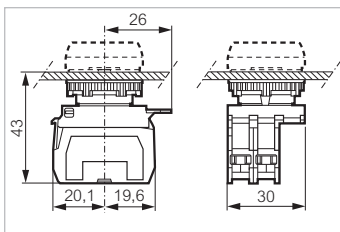
**331EAWH**  
**331EARH**  
**331EAGH**  
**331EABH**  
**331EAYH**

#### SCREW TERMINALS

#### 3 position clip: NO + LED block



333EAWM10



#### 24 V

- White
- Red
- Green
- Blue
- Yellow

**333EAWL10**  
**333EARL10**  
**333EAGL10**  
**333EABL10**  
**333EAYL10**

#### 130 V

- White
- Red
- Green
- Blue
- Yellow

**333EAWM10**  
**333EARM10**  
**333EAGM10**  
**333EABM10**  
**333EAYM10**

#### 230 V

- White
- Red
- Green
- Blue
- Yellow

**333EAWH10**  
**333EARH10**  
**333EAGH10**  
**333EABH10**  
**333EAYH10**

## Separate units: Blocks sub-assemblies

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

 Characteristics (p. 94)

### ► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

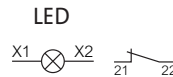
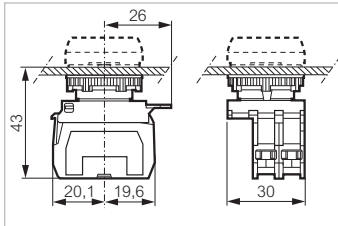
#### SCREW TERMINALS

#### 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

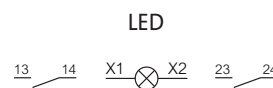
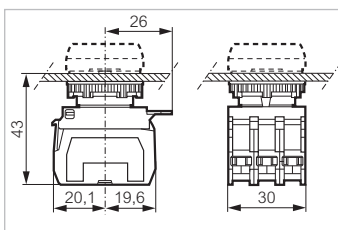
**333EAWH01**  
**333EARH01**  
**333EAGH01**  
**333EABH01**  
**333EAYH01**

#### 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)

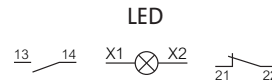
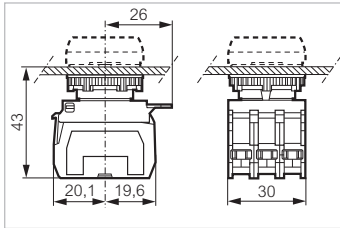
#### SCREW TERMINALS

3 position clip: NO + LED block + NC

Cat. No.



333EARL11



**24 V**

- White
- Red
- Green
- Blue
- Yellow

**333EAWL11**  
**333EARL11**  
**333EAGL11**  
**333EABL11**  
**333EAYL11**

**130 V**

- White
- Red
- Green
- Blue
- Yellow

**333EAWM11**  
**333EARM11**  
**333EAGM11**  
**333EABM11**  
**333EAYM11**

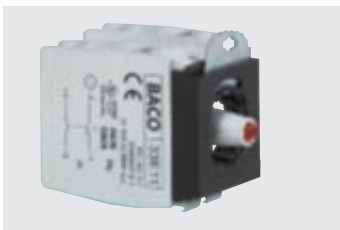
**230 V**

- White
- Red
- Green
- Blue
- Yellow

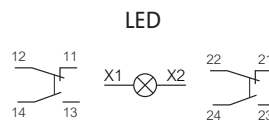
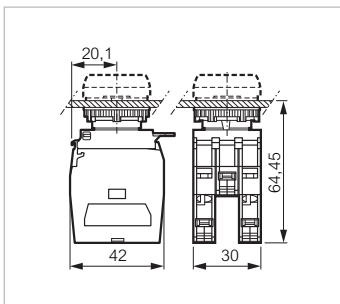
**333EAWH11**  
**333EARH11**  
**333EAGH11**  
**333EABH11**  
**333EAYH11**

#### SCREW TERMINALS

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



334EARL22



**24 V**

- White
- Red
- Green
- Blue
- Yellow

**334EAWL22**  
**334EARL22**  
**334EAGL22**  
**334EABL22**  
**334EAYL22**

**130 V**

- White
- Red
- Green
- Blue
- Yellow

**334EAWM22**  
**334EARM22**  
**334EAGM22**  
**334EABM22**  
**334EAYM22**

**230 V**

- White
- Red
- Green
- Blue
- Yellow

**334EAWH22**  
**334EARH22**  
**334EAGH22**  
**334EABH22**  
**334EAYH22**



## Separate units: Blocks sub-assemblies

IP 20  
 Clip and electrical blocks assembled  
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 Mounting (p. 92)  
 Conform to IEC 60947-5-1

 Characteristics (p. 94)

### ► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

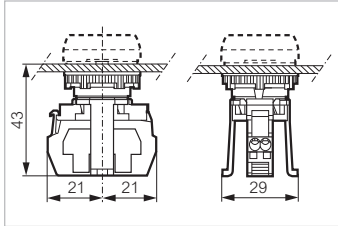
#### PLUG-IN TERMINALS

#### 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

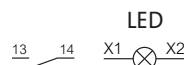
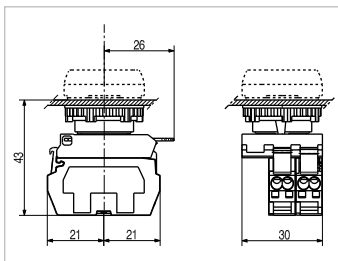
**331ERAWH**  
**331ERARH**  
**331ERAGH**  
**331ERABH**  
**331ERAYH**

#### 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)

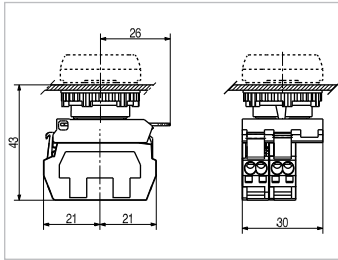
#### PLUG-IN TERMINALS

#### 3 position clip: LED block + NC

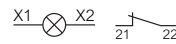
Cat. No.



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

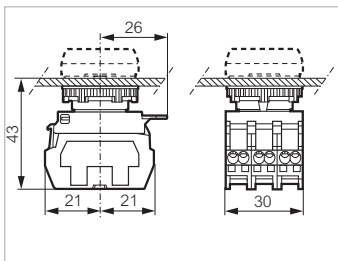
333ERAWH01  
 333ERARH01  
 333ERAGH01  
 333ERABH01  
 333ERAYH01

#### PLUG-IN TERMINALS

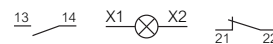
#### 3 position clip: NO + LED block + NC



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

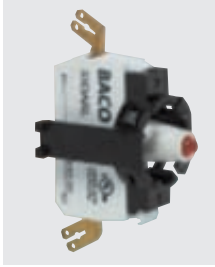
 Characteristics (p. 94)

### ► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

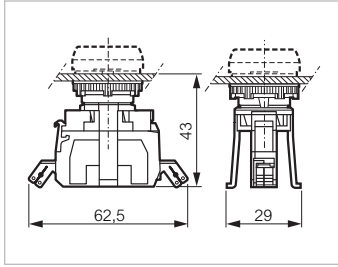
#### FASTON TERMINALS

#### 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

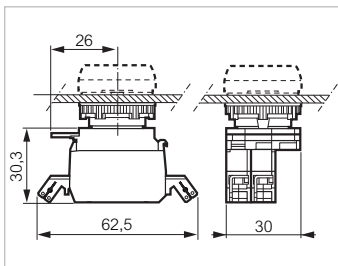
331EDAWH  
 331EDARH  
 331EDAGH  
 331EDABH  
 331EDAYH

#### FASTON TERMINALS

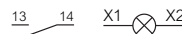
#### 3 position clip: NO + LED block



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)

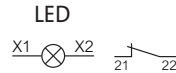
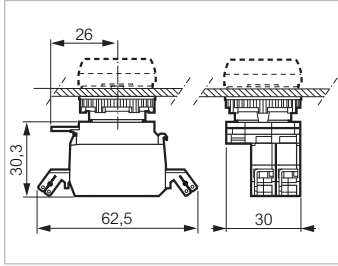
#### FASTON TERMINALS

#### 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

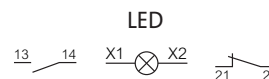
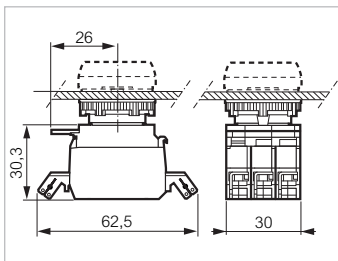
- 333EDAWH01
- 333EDARH01
- 333EDAGH01
- 333EDABH01
- 333EDAYH01

#### 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)

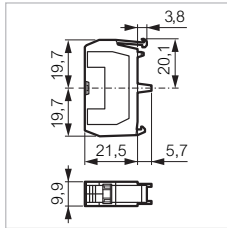
## ▶ CONTACT BLOCKS

### 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**

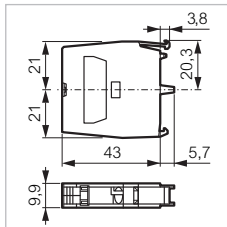
NC



**33E01C**



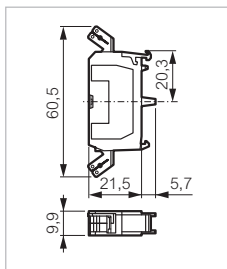
33E11



### FASTON TERMINALS



33D01



NO



**33D10**

NC

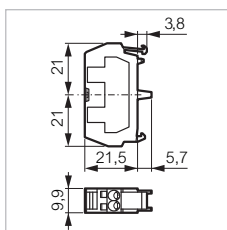


**33D01**

### 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)

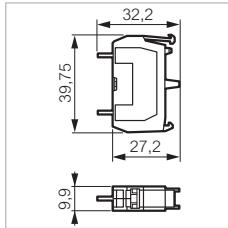
## ▶ CONTACT BLOCKS (CONTINUED)

### FOR PCB (PIN-STYLE TERMINALS)

Cat. No.



33P10



NO 

**33P10**

NC 

**33P01**

**Golden contacts  
for low current**

NO 

**33P10Y7**

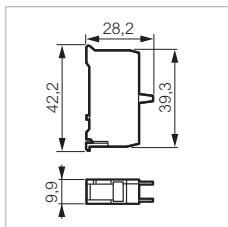
NC 

**33P01Y7**

### FOR CONTROL STATIONS (SCREW TERMINALS)



33S01



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

NO 

**33S10**

NC 

**33S01**

# Separate units: Blocks

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

 Characteristics (p. 94)

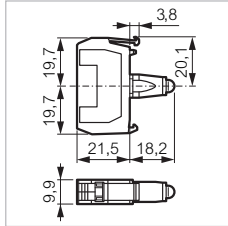
## ▶ LED BLOCKS

### 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)

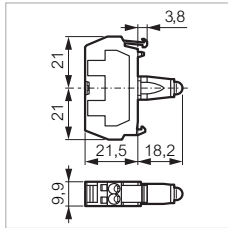
## ▶ LED BLOCKS (CONTINUED)

### 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

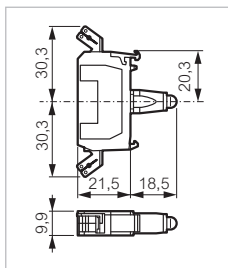
- White
- Red
- Green
- Blue
- Yellow

- 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)

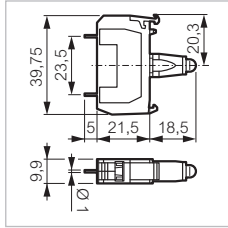
### ▶ LED BLOCKS (CONTINUED)

#### FOR PCB (PIN STYLE)

Cat. No.



33PAWL



#### 24 V

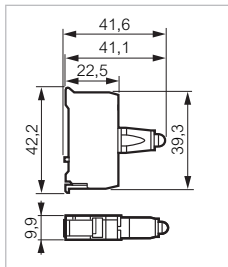
- White
- Red
- Green
- Blue
- Yellow

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

#### FOR CONTROL STATIONS (SCREW TERMINALS)



33SAGH



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



#### 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

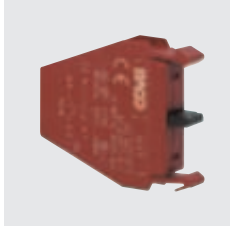
IP 20  
To be combined with a 1, 3 or 5 position clip (p. 65)

 Characteristics (p. 94)

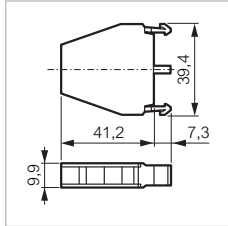
## ► SPECIFIC BLOCKS

### FOR JOYSTICKS (SCREW TERMINALS)

Cat. No.



LM11



Joysticks (p. 36)

NO - NC

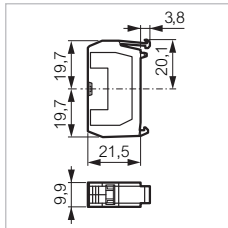


**LM11**

### LAMP-TEST BLOCKS (SCREW TERMINALS)

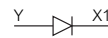


33ET



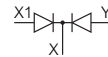
For 24 and 48 V

1 diod



**33ET**

2 diods



**33ETT**

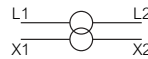
For 130 and 230 V (form p. 79)

### TRANSFORMER BLOCKS (SCREW TERMINALS)

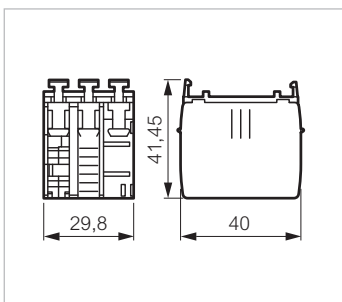


33EHC

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)

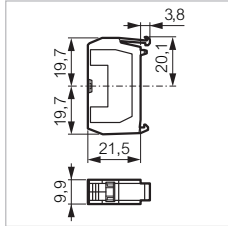
## ► SPECIFIC BLOCKS

### 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

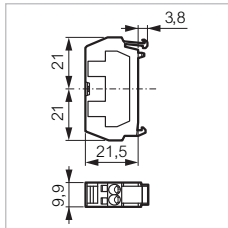


**33EFM**  
**33EFH**

### FILTER BLOCKS (PLUG-IN TERMINALS)

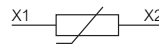


33RFH



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

130 V  
230 V

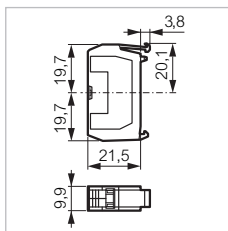


**33RFM**  
**33RFH**

### JUNCTION BLOCK (SCREW TERMINALS)



33EY



2 interconnected  
terminals

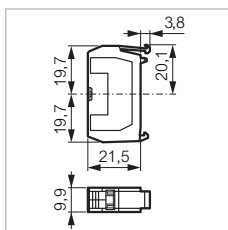


**33EY**

### EMPTY BLOCK



33EX



For empty positions on 3 or 5 position clip

**33EX**

# Accessories

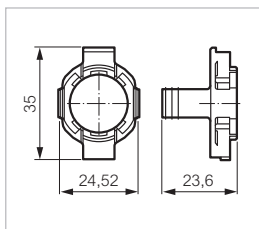
 Characteristics (p. 94)

## ▶ CLIPS

CLIPS Cat. No.



331E



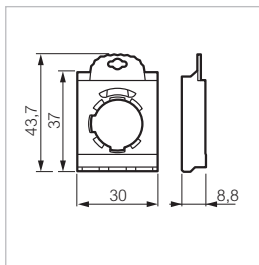
To be combined with blocks (p. 58 to 64)

1 position

**331E**



333E

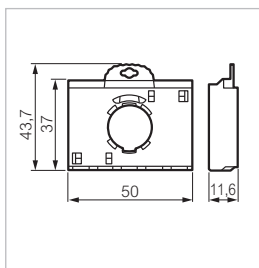


3 positions

**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)

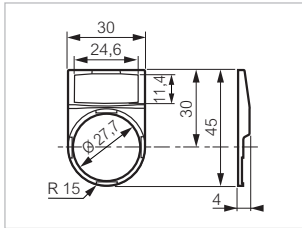
## ▶ COMPLETE FRAMES

### 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 ...)

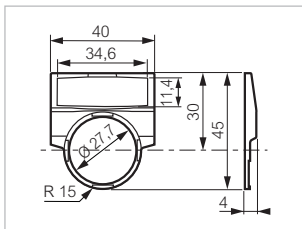
- Transparent

**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

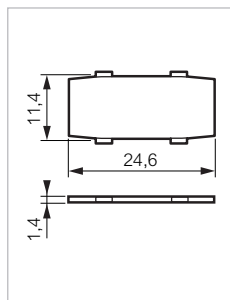
### TO BE ENGRAVED

### Standard model

Cat. No.



LIA5



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

#### Without engraving

- White
- Red
- Alu
- Black

**LIA5**  
**LIA1**  
**LIA9**  
**LIA3**

#### On demand engraving (p. 70)

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

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

LIA5□□□□  
LIA1□□□□  
LIA9□□□□  
LIA3□□□□

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

- Transparent

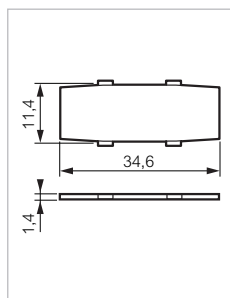
**LIA7**

### TO BE ENGRAVED

### Large model



LIB9



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

#### Without engraving

- White
- Red
- Alu
- Black

**LIB5**  
**LIB1**  
**LIB9**  
**LIB3**

#### On demand engraving (p. 70)

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

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

LIB5□□□□  
LIB1□□□□  
LIB9□□□□  
LIB3□□□□

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

- Transparent

**LIB7**

# Accessories ø 22

 Characteristics (p. 94)

## ▶ LEGEND PLATES

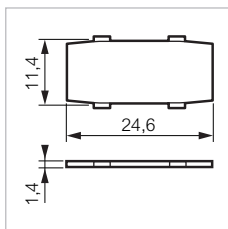
### ENGRAVED

#### Small model

Cat. No.



LIA9081



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

#### With standard engraving

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

#### On demand engraving (p. 70)

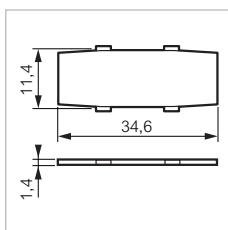
Symbol code to be added at the end of the catalogue number **LIA9□□□**

### ENGRAVED

#### Large model



LIB9382



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

OFF-ON	<b>LIB9382</b>
O-I-START	<b>LIB9093</b>

# Accessories ø 22

 Characteristics (p. 94)

## ▶ FRAMES

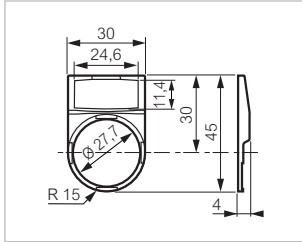
### ROUND

#### Standard model

Cat. No.



LWP3



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

- Black

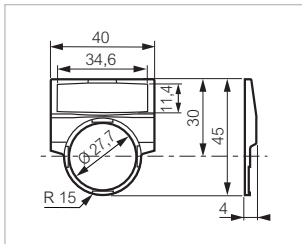
**LWP3**

### ROUND

#### Large model



LWG3



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

- Black

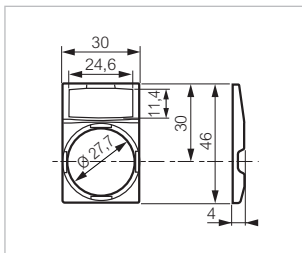
**LWG3**

### SQUARE

#### Standard model



LWP4



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

- Black

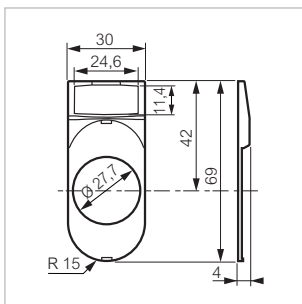
**LWP4**

### FOR DOUBLE AND TRIPLE TOUCH

#### Standard model



LWP2



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

- Black

**LWP2**



# Engravings

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

## ▶ STANDARD TEXTS

### UNIVERSAL TEXT

Cat. No.

#### For selector switches and legend plates

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

### ENGLISH TEXT

#### For buttons, pilot lights and legend plates

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

#### For selector switches and legend plates

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

# Engravings

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

## ▶ STANDARD TEXTS (CONTINUED)

### GERMAN TEXT

Cat. No.

#### For buttons, pilot lights and legend plates

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

#### For selector switches and legend plates

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

### FRENCH TEXT

#### For buttons, pilot lights and legend plates

ALARME	133
ARRÊT	102
ARRÊT GÉNÉRAL	116
ARRIÈRE	106
AVANT	105
DÉCLENCHEMENT	131
DÉFAUT	132
DESCENTE	108
DROITE	112
EN SERVICE	103
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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
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## Symbols

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










### STANDARD SYMBOLS ISO/DIN

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










## Symbols

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

### ▶ STANDARD SYMBOLS ISO/DIN (CONTINUED)

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

### ▶ ADDITIONAL STANDARD SYMBOLS

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

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

# Accessories ø 22

 Characteristics (p. 94)

## ▶ BUTTON PLATES - FOR HEADS WITHOUT BUTTON PLATE

### NON ILLUMINATED

Cat. No.



LT05

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

#### Without engraving

● Red	<b>LT01</b>
● Green	<b>LT02</b>
● Black	<b>LT03</b>
● Yellow	<b>LT04</b>
○ White	<b>LT05</b>
● Blue	<b>LT06</b>



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	<b>LT10</b>
● Green	<b>LT20</b>
● Yellow	<b>LT40</b>
○ White	<b>LT50</b>
● Blue	<b>LT60</b>



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**

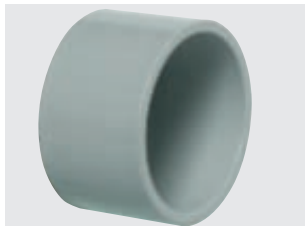
# Accessories ø 22

 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.



Fixing tool for locking ring

**LWA0234**

LWA0234

#### REDUCTION RING Ø 30/22



Converts ø 30 mm cut-out to 22 mm hole

● Grey

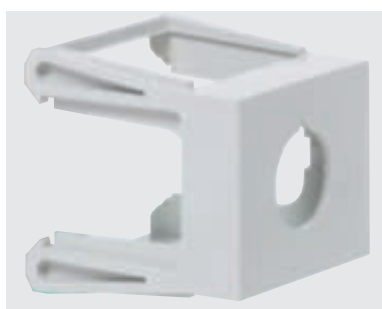
**LWA0219**

● Yellow

**LWA0220**

LWA0219

#### PUSH BUTTON SUPPORT CLIP-ON TO DIN RAIL



For pilot lights, spring return buttons and selector switches

**LWA0238**

LWA0238

#### PADLOCKABLE SHROUD



For spring return push-buttons

**LWA0226**

LWA0226



# 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



# Control stations $\phi$ 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)

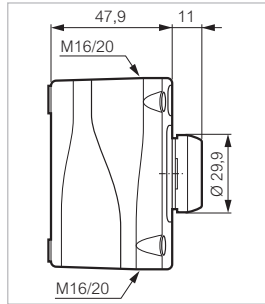
## ▶ CONTROL STATIONS WITH 1 BUTTON - NON ILLUMINATED

### SPRING RETURN - FLUSH

Cat. No.



LBX10110



- Green
- Red

NO  
 NC



#### Marking

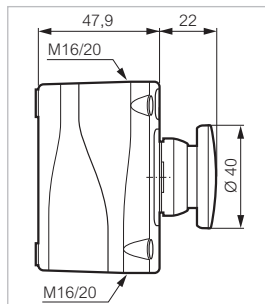


**LBX10110**  
**LBX10610**

### MUSHROOM HEAD $\phi$ 40 - SPRING RETURN



LBX10210



- Red

NC



#### Marking

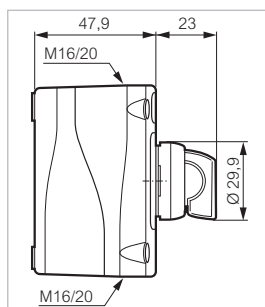


**LBX10210**

### 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)

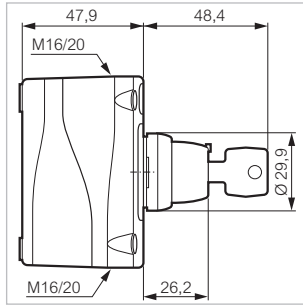
## ▶ CONTROL STATIONS WITH 1 BUTTON (CONTINUED)

### 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 

#### Marking

○  
I

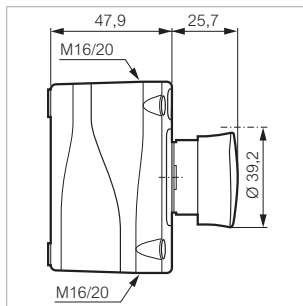
LBX12610




### MUSHROOM HEAD ø 40 - STAY-PUT

Push-turn to reset



LBX10510



● Red NC   
 ● Red NC   
 ● Red NC 

ARRÊT D'URGENCE  
 NOT AUS  
 EMERGENCY STOP

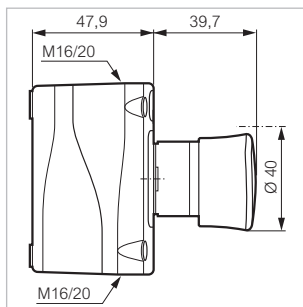
LBX10310  
**LBX10410**  
**LBX10510**

Contact blocks fixed behind cover (form p. 90)


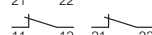

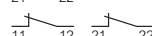

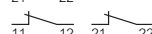
### MUSHROOM HEAD ø 40 EN 418/ISO 13850 - STAY-PUT Push-turn to reset



LBX17201



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

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

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

LBX17101  
 LBX17102  
 LBX17201  
 LBX17202

EMERGENCY STOP  
 EMERGENCY STOP

Contact blocks fixed behind cover (form p. 90)

# Control stations Ø 22

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

 Characteristics (p. 94)

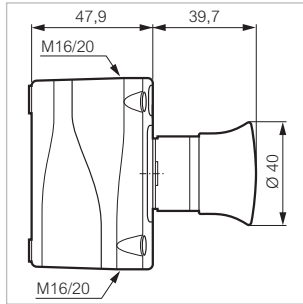
## ► CONTROL STATIONS WITH 1 BUTTON (CONTINUED)

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


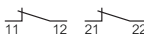

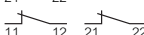

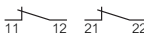
Cat. No.



LBX15101



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

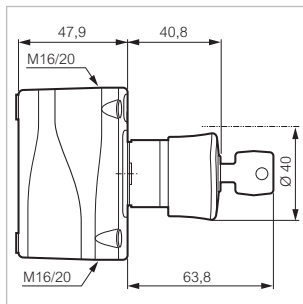
● Red	NC		ARRÊT D'URGENCE	<b>LBX15101</b>
● Red	2 NC		ARRÊT D'URGENCE	LBX15102
● Red	NC		NOT AUS	LBX15201
● Red	2 NC		NOT AUS	LBX15202
● Red	NC		EMERGENCY STOP	<b>LBX15301</b>
● Red	2 NC		EMERGENCY STOP	<b>LBX15302</b>

Contact blocks fixed behind cover (form p. 90)


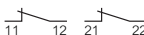

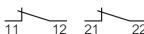

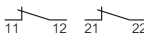
### MUSHROOM HEAD Ø 40 EN 418/ISO 13850 - STAY-PUT Key to reset



LBX11302



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

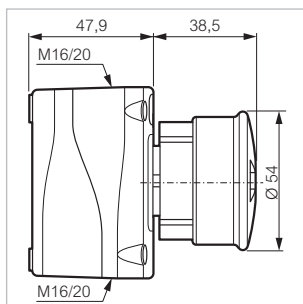
● Red	NC		ARRÊT D'URGENCE	<b>LBX11101</b>
● Red	2 NC		ARRÊT D'URGENCE	LBX11102
● Red	NC		NOT AUS	LBX11201
● Red	2 NC		NOT AUS	LBX11202
● Red	NC		EMERGENCY STOP	<b>LBX11301</b>
● Red	2 NC		EMERGENCY STOP	<b>LBX11302</b>

Contact blocks fixed behind cover (form p. 90)



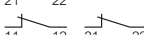

### MUSHROOM HEAD Ø 54 EN 418/ISO 13850 - STAY-PUT Push-pull to reset with flag indicator



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 - 	<b>LBX14201</b>
● Red	2 NC		STOP - 	LBX14202

Contact blocks fixed behind cover (form p. 90)

# Control stations ø 22

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

 Characteristics (p. 94)

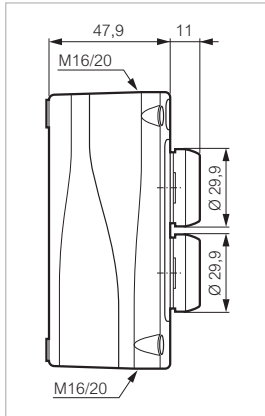
## ▶ CONTROL STATIONS WITH 2 BUTTONS

SPRING RETURN - FLUSH

Cat. No.



LBX20120



● Green  
 ● Red

NO  
 NC



Marking



**LBX20120**

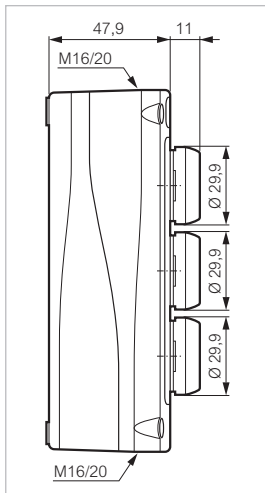
## ▶ CONTROL STATIONS WITH 3 BUTTONS

SPRING RETURN - FLUSH

Cat. No.



LBX30430



● Green  
 ● Red  
 ● Green

NO  
 NC  
 NO



**LBX30430**

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



# Control stations $\varnothing$ 22

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

 Characteristics (p. 94)

## ► ENCLOSURES

### 1 HOLE

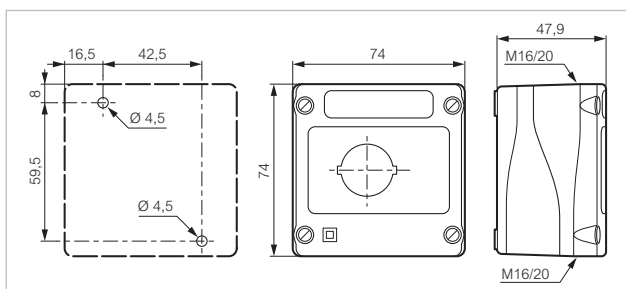
Cat. No.



**Black base**  
 ● Grey cover  
 ● Yellow cover

**LBX0100**  
**LBX0100J**

LBX0100J



### 2 HOLES

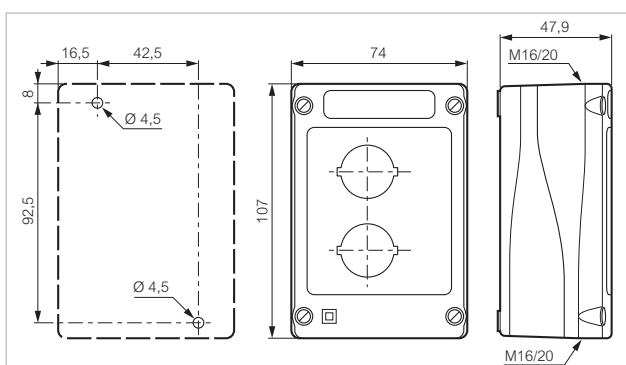
Cat. No.



**Black base**  
 ● Grey cover  
 ● Yellow cover

**LBX0200**  
**LBX0200J**

LBX0200



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

# Control stations $\varnothing$ 22

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



Characteristics (p. 94)

## ► ENCLOSURES (CONTINUED)

3 HOLES

Cat. No.

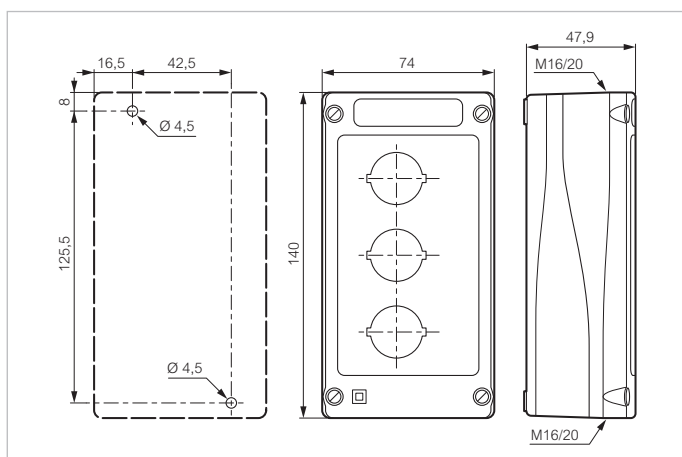


LBX0300

**Black base**

- Grey cover

**LBX0300**



# Control stations $\varnothing$ 22

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



Characteristics (p. 94)

## ► ENCLOSURES (CONTINUED)

4 HOLES

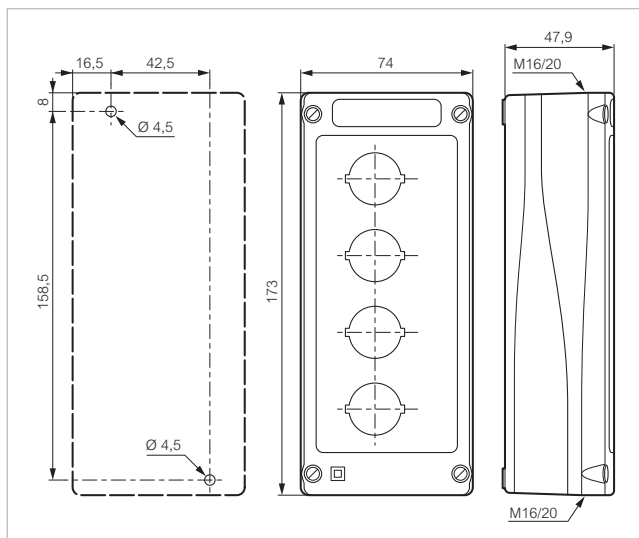
Cat. No.



**Black base**  
 ● Grey cover

**LBX0400**

LBX0400



# Control stations $\varnothing$ 22

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

 Characteristics (p. 94)

## ► ENCLOSURES (CONTINUED)

5 HOLES

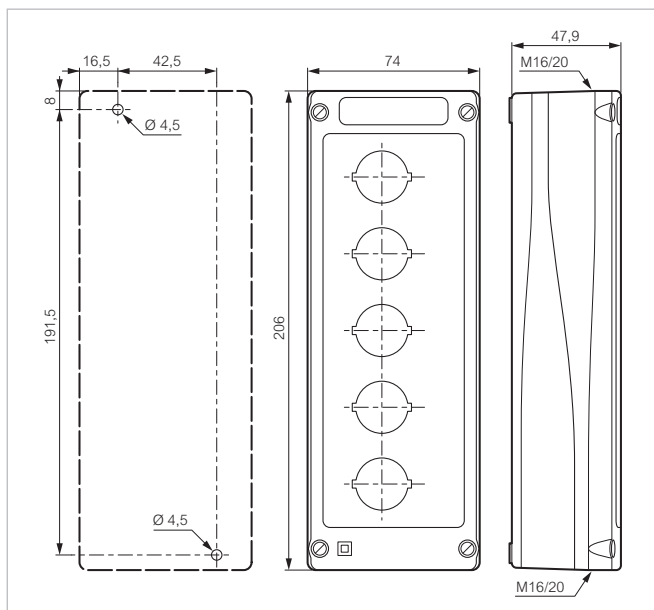
Cat. No.



**Black base**  
 ● Grey cover

**LBX0500**

LBX0500



# Request form for specific control station ø 22

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

Mounting:  horizontal  vertical

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

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

- |   |    |    |  |                                     |
|---|----|----|--|-------------------------------------|
| 1 | 8  | 13 | 1 Spring return flush                              | 8 Mushroom head push-turn stay-put  |
| 2 | 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 |    |    | 5 Mushroom head spring return                      | 12 Knob selector switch             |
| 6 |    |    | 6 Mushroom head push-pull stay-put                 | 13 Key selector switch              |
| 7 |    |    | 7 Mushroom head ø 54 push-pull with flag indicator | 14 Double touch                     |
|   |    |    |  | 15 Triple touch                     |
|   |    |    |  | 16 Pilot light                      |

Please fill in the table below

Head no.	Heads										Blocks								
	Illuminated	COLOUR						BEZEL				NO	NC	illuminated with LED	LED VOLTAGE				
		Green	Black	Red	White	Blue	Yellow	Black plastic	Matt chromed	Extended	IP 67 shroud				Ø 54	Ø 40	Ø 32	EN 418/ISO 13850	24 V
<input type="checkbox"/>																			
<input type="checkbox"/>																			
<input type="checkbox"/>																			
<input type="checkbox"/>																			
<input type="checkbox"/>																			

Earth terminal  Contact fixed behind the cover

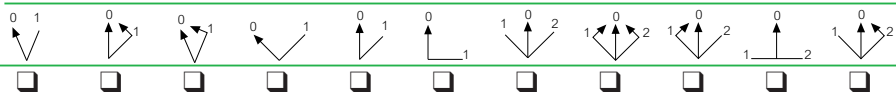
**Marking:**

Function  Max. 14 characters on 1 line

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

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

**SELECTOR SWITCHES' SWITCHING ANGLE**



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

Specify the concerned buttons: .....

**YOUR DETAILS**

Company: .....

Name and surname: .....

Address: .....

E-mail : .....

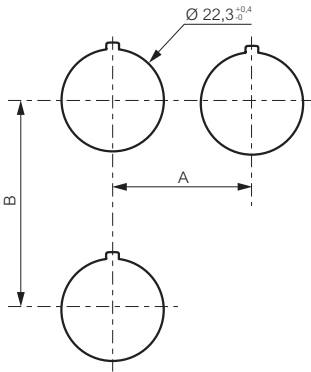
Tel.: .....

Fax: .....

**COMMENTS**

# Panel cut-out

## DRILLING

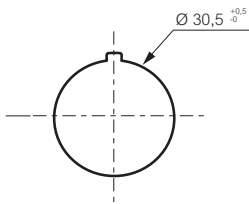


For heads equipped with electrical blocks with screw or plug-in terminals

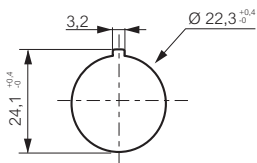
### Minimum interval (mm)

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

## DRILLING FOR SUPER-FLUSH BUTTON

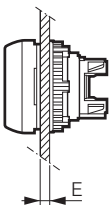


## DRILLING WHEN USING THE ANTI-ROTATION RING (OPTIONAL)



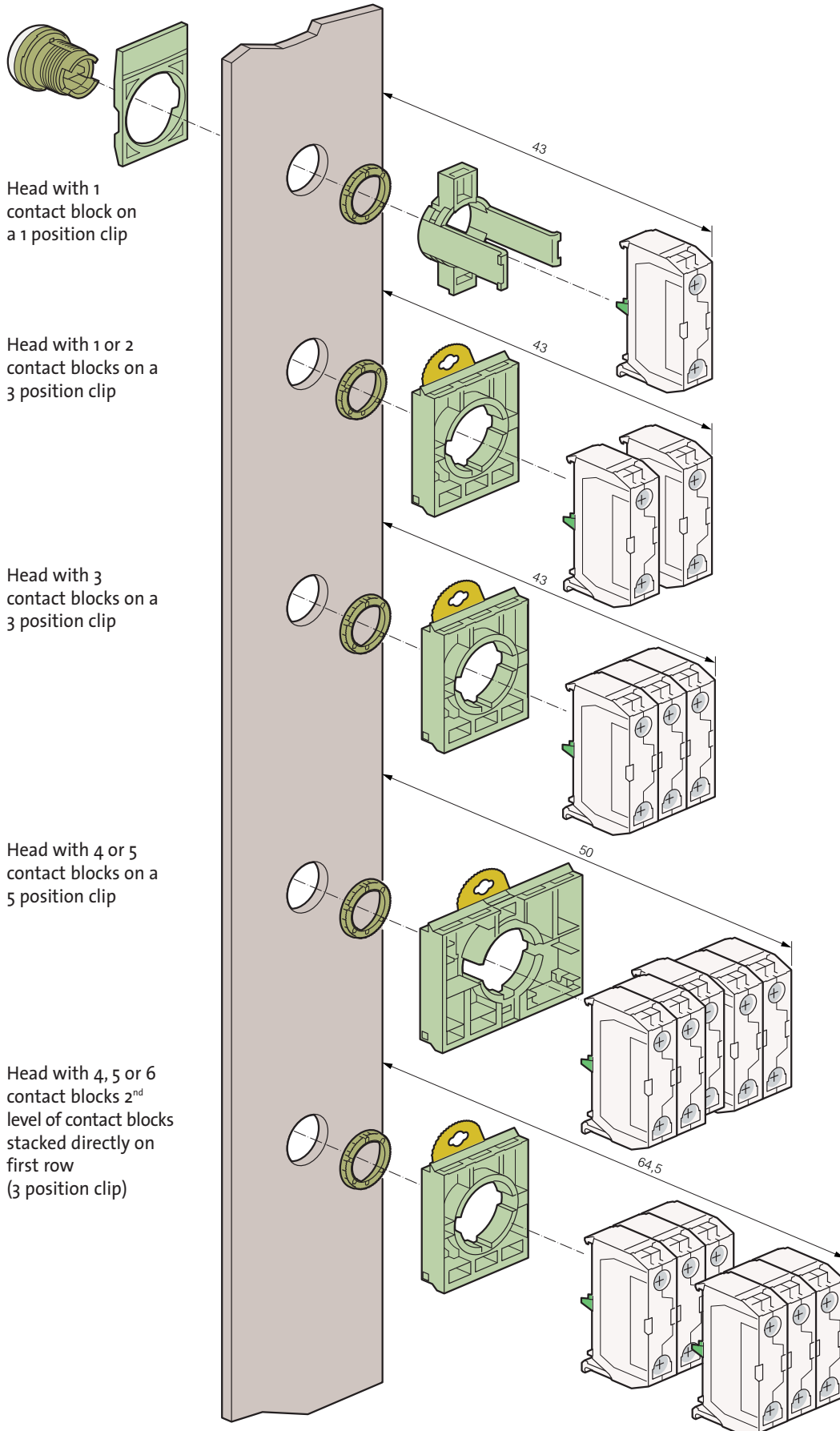
## THICKNESS OF PANEL (E)

E = 1 to 6 mm



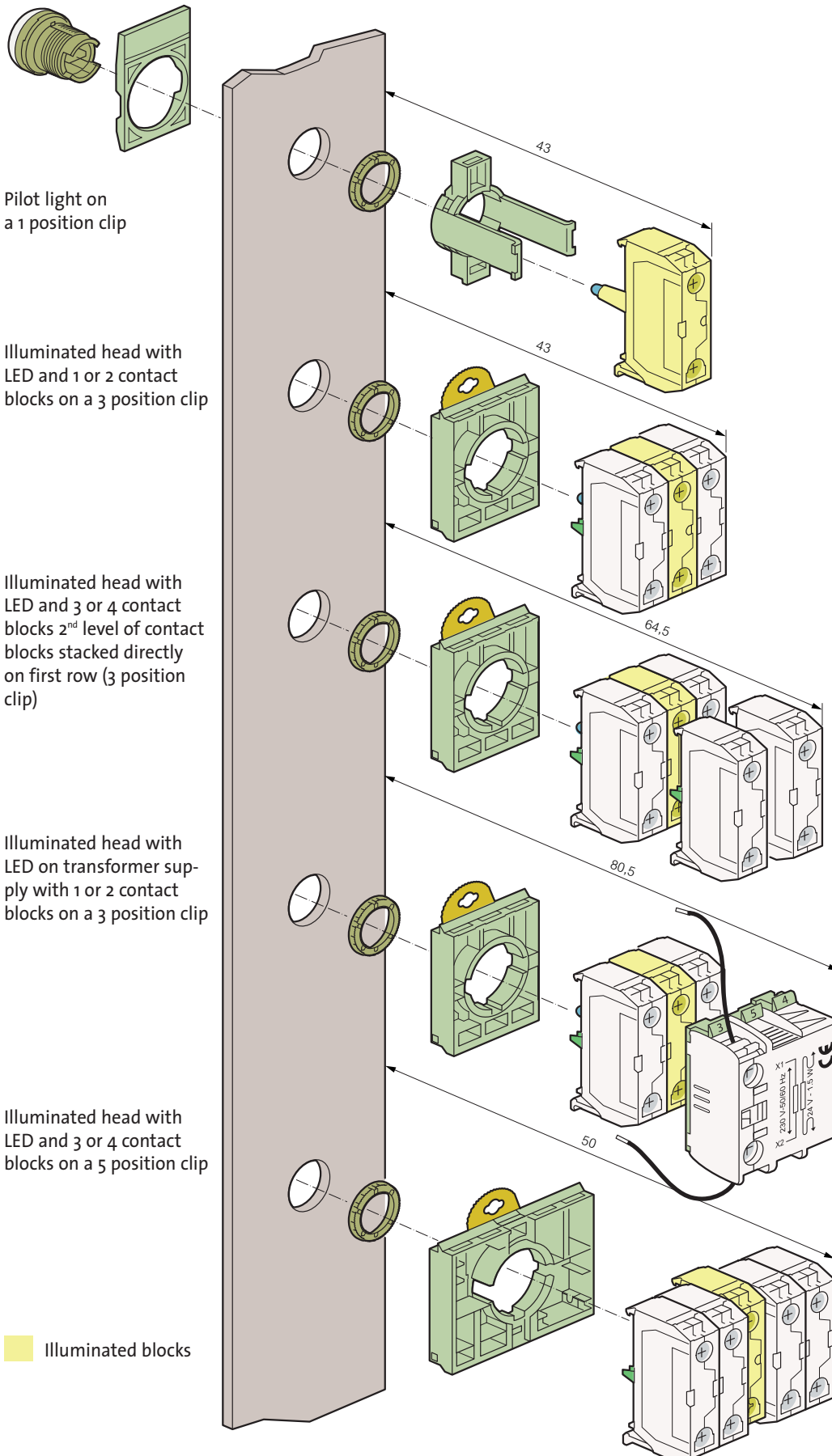
# Mounting blocks $\phi$ 22

NON ILLUMINATED



# Mounting blocks $\varnothing 22$

## 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 Uimp Pollution degree	6kV 3		
▶ Conventional thermal current in free air conditions	AC15: 10 A DC13: 2,5 A	IEC 60947-5-1	
▶ Electrical ratings	<p><b>Alternating current</b> AC15 - A 600 Ue = 120 V, Ie = 6 A Ue = 240 V, Ie = 3 A Ue = 380 V, Ie = 1,9 A Ue = 480 V, Ie = 1,5 A Ue = 500 V, Ie = 1,4 A Ue = 600 V, Ie = 1,2 A</p> <p><b>Minimum operating current</b> - standard blocks Ue = 24 V DC and Ie = 5 mA Failure rate &lt; 10<sup>-8</sup></p>	<p><b>Direct current</b> DC13 - Q 600 Ue = 125 V, Ie = 0,55 A Ue = 250 V, Ie = 0,27 A Ue = 400 V, Ie = 0,15 A Ue = 500 V, Ie = 0,13 A Ue = 600 V, Ie = 0,1 A</p> <p>- golden contacts Ue = 5 V DC and Ie = 1 mA Failure rate &lt; 10<sup>-8</sup></p>	IEC 60947-5-1
▶ Electrical operating life	<p><b>1 million cycles for:</b> - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A</p> <p>- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A</p>		
▶ Applicable wire sizes	Rigid or flexible wire without ferrule: 0,5 mm <sup>2</sup> to 2 x 2,5 mm <sup>2</sup> Rigid or flexible wire with ferrule: 0,5 mm <sup>2</sup> to 2 x 1,5 mm <sup>2</sup>		
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 Uimp Pollution degree	6 kV 3		
▶ Conventional thermal current in free air conditions	AC 15: 10 A DC 13: 2,5 A	IEC 60947-5-1	
▶ Electrical ratings	<p><b>Alternating current</b> AC15 - A 300 Ue = 120 V, Ie = 6 A Ue = 240 V, Ie = 3 A</p> <p><b>Minimum current of use</b> Ue = 24 V DC and Ie = 5 mA Failure rate &lt; 10<sup>-8</sup></p>	<p><b>Direct current</b> DC13 - Q 300 Ue = 125 V, Ie = 0,55 A Ue = 250 V, Ie = 0,27 A</p> <p>- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A</p>	IEC 60947-5-1
▶ Electrical operating life	<p><b>1 million cycles for:</b> - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A</p> <p>- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A</p>		
▶ Faston size	6,35 mm or 2 x 2,8 mm		

# Technical characteristics

## ▶ CONTACT BLOCKS

Pin-style connection (for PCB)	Data	Standards	
▶ Rated insulation voltage	250 V AC 250 V AC	IEC 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	<b>Alternating current</b> AC 15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A	<b>Direct current</b> 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
	<b>Minimum current of use</b> - standard blocks Ue = 24 V DC and Ie = 5 mA Failure rate < 10 <sup>-8</sup>	- golden contacts Ue = 5 V DC and Ie = 1 mA Failure rate < 10 <sup>-8</sup>	
▶ Electrical operating life	<b>1 million cycles for:</b> - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A	- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A	
▶ Pin diameter	∅ 1 mm		

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

Characteristics	Data	Standards
▶ Rated insulation voltage	300 V	IEC 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.

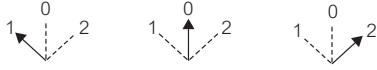
The EN 418/ISO 13850 mushroom heads also comply with the safety requirements detailed in standards EN 418 and ISO 13850.

## Diagrams

### MECHANICAL OPERATION

For 3 position selector switches

**Handle position**  
(View from front of panel)



**Contacts block actuation**  
(View from front of panel)



**Back side view**

**Non operated block**



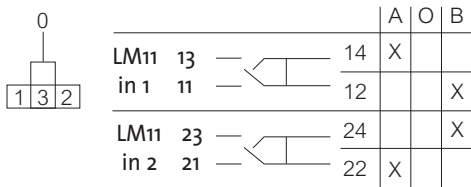
**Operated block**



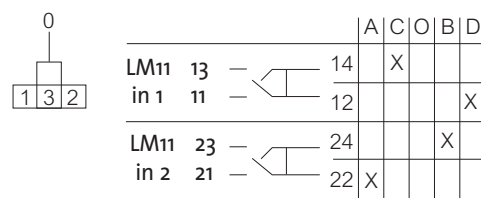
### MECHANICAL OPERATION

For Joysticks

**2 positions**

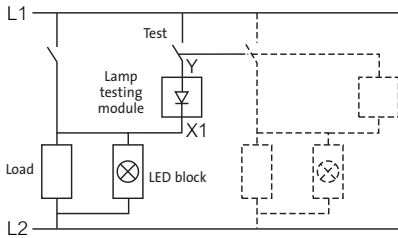


**4 positions**

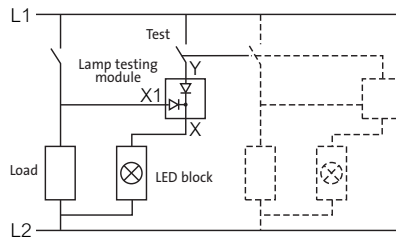


### PUSH-TO-TEST LED PILOT LIGHT DIAGRAMS

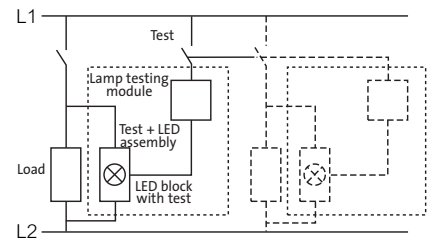
Lamp-testing module with  
1 diode (33ET) for direct  
supply 24 V and 48 V



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



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



### PRINTED CIRCUIT BOARD MOUNTING

