

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)
Cross reference list (p. 311)

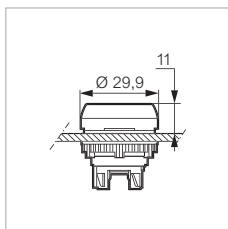
► PUSH-BUTTONS - ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



L21AH20



Without engraving

- Red
- Green
- Yellow
- White
- Blue

L21AH10
L21AH20
L21AH40
L21AH50
L21AH60

On demand engraving (p. 79)

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

- Red
- Green
- Yellow
- White
- Blue

L21AH31□□□
L21AH32□□□
L21AH34□□□
L21AH35□□□
L21AH36□□□

Without button plate

L21AH00

Button plates (p. 74)



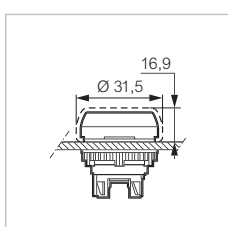
L21AH00

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



L22AP40



Supplied with transparent shroud

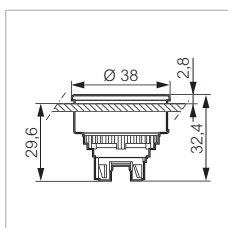
- Red
- Green
- Yellow
- White
- Blue

L22AP10
L22AP20
L22AP40
L22AP50
L22AP60

SPRING RETURN - SUPER FLUSH



L23AH10



Metallic chrome bezel

Drilling ø 30 mm

Without engraving

- Red
- Green
- Yellow
- White
- Blue

L23AH10
L23AH20
L23AH40
L23AH50
L23AH60

On demand engraving (p. 79)

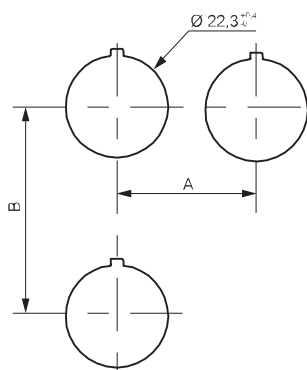
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- Green
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- Blue

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

Panel cut-out

DRILLING

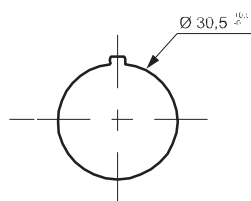


For heads equipped with electrical blocks with screw or plug-in terminals

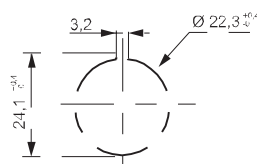
Minimum interval (mm)

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

DRILLING FOR SUPER-FLUSH BUTTON

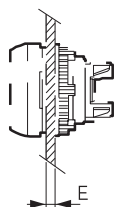


DRILLING WHEN USING THE ANTI-ROTATION RING (OPTIONAL)



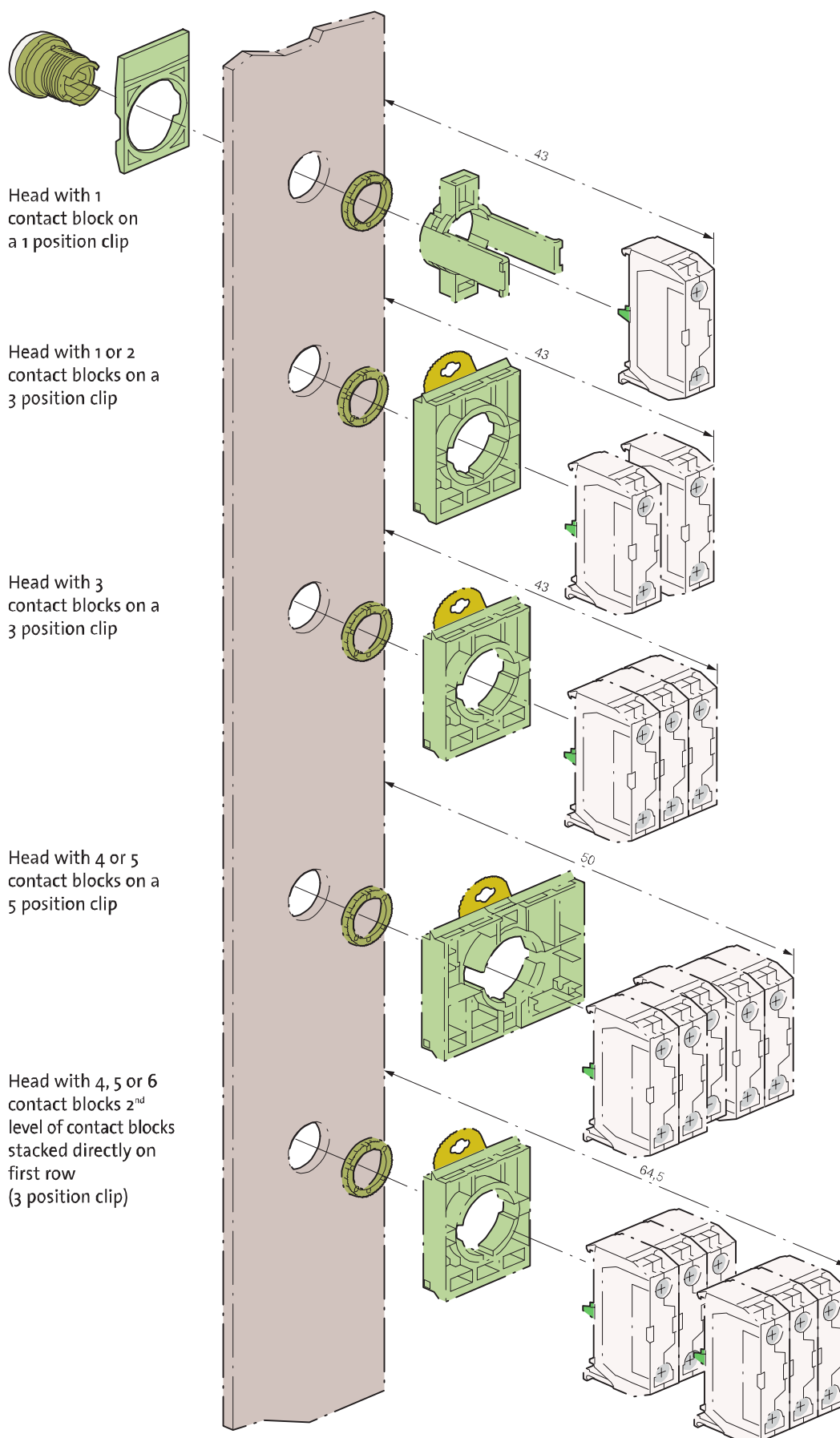
THICKNESS OF PANEL (E)

E = 1 to 6 mm



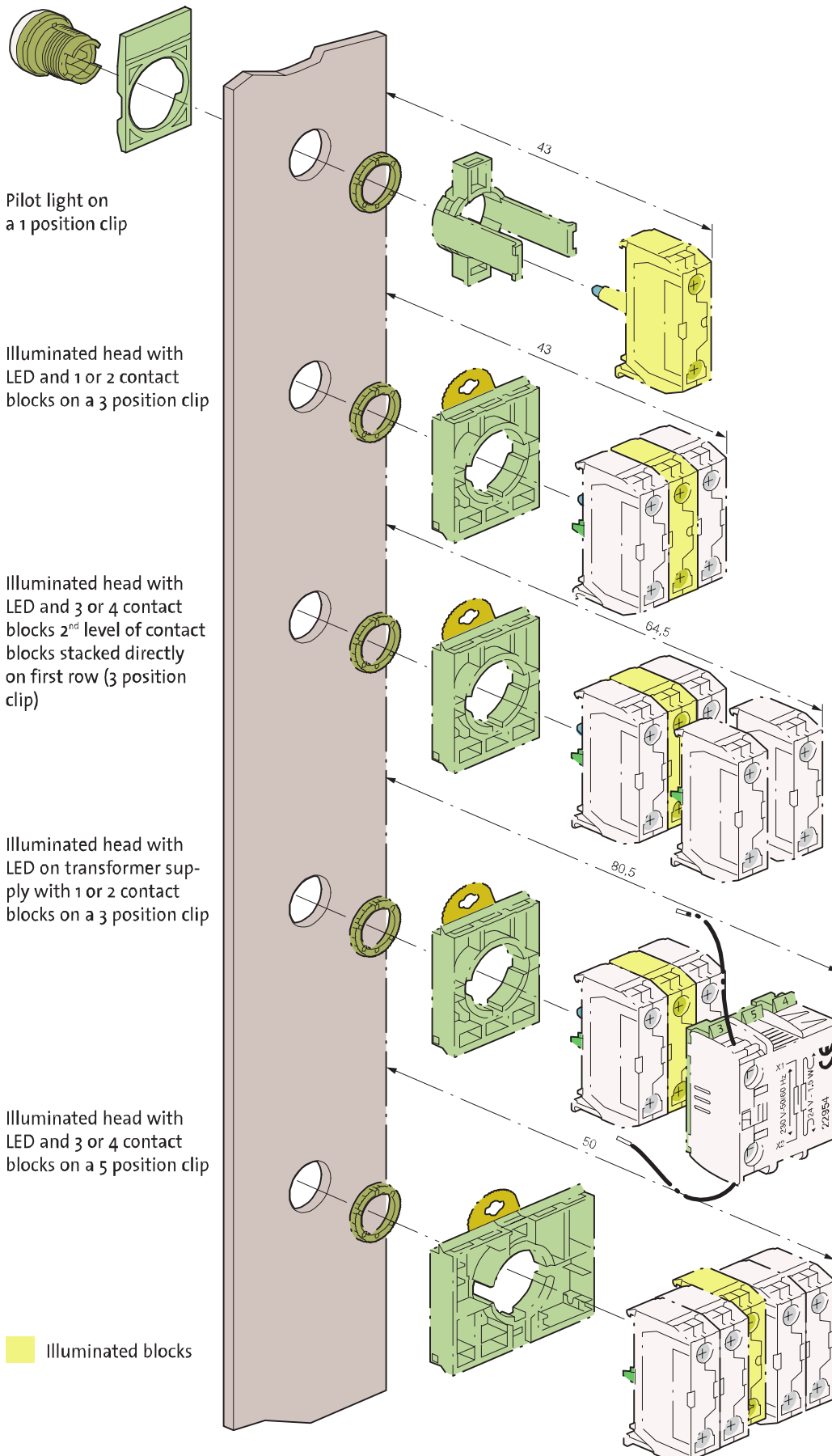
Mounting blocks $\varnothing 22$

NON ILLUMINATED



Mounting blocks ø 22

ILLUMINATED



Technical characteristics

► GENERAL

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

Technical characteristics

► CONTACT BLOCKS

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

Faston connection	Data		Standards
► Rated insulation voltage	320 V AC 300 V AC		IEC/EN60947-1 UL 508
► NC contacts	Positive opening		IEC/EN 60947-5-1
► Rated impulse withstanding voltage U _{imp} Pollution degree	6 kV 3		
► Conventional thermal current in free air conditions	AC 15: 10 A DC 13: 2,5 A		IEC 60947-5-1
► Electrical ratings	Alternating current AC15 - A 300 U _e = 120 V, I _e = 6 A U _e = 240 V, I _e = 3 A Minimum current of use U _e = 24 V DC and I _e = 5 mA Failure rate < 10 ⁻⁸	Direct current DC13 - Q 300 U _e = 125 V, I _e = 0,55 A U _e = 250 V, I _e = 0,27 A - DC13 - R 300 U _e = 125 V, I _e = 0,22 A U _e = 250 V, I _e = 0,1 A	IEC 60947-5-1
► Electrical operating life	1 million cycles for: - AC15 - B 300 U _e = 120 V, I _e = 3 A U _e = 240 V, I _e = 1,5 A	- DC13 - R 300 U _e = 125 V, I _e = 0,22 A U _e = 250 V, I _e = 0,1 A	
► Faston size	6,35 mm or 2 x 2,8 mm		

Technical characteristics

▶ CONTACT BLOCKS

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

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

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

Technical characteristics

▶ ONE PIECE PILOT LIGHT BA9S

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

▶ HEADS

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

▶ EMERGENCY STOP ACTUATORS - EN 418:

For equipment subject to Machine Security Directive CE 98/37 and EN60204 standard.

BACO emergency stop switches EN418 and contact blocks meet the requirements of the European Machine Directive EN 418 and EN60947-5-5 specification.

Our E-stops provide the "fool-proof" or "tease-proof" emergency stop switch feature - described below, that latches in the emergency stop command and then switches the contact state to open the circuit and shut down the equipment.

"After the emergency stop command has been generated during actuation of the emergency stop device, the command shall be maintained by engagement (latching-in) of the actuating means. The emergency stop command shall be maintained until the emergency stop device is reset (disengaged). It shall not be possible for the emergency stop device to engage without generating the stop command."

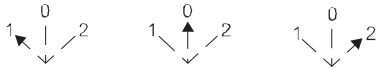
Simply stated, this directive indicates that the latching mechanism of the switch is activated when the actuator is pushed to a certain point. The switch will continue to remain in this latched position until manually reset by twisting to release.

Diagrams

MECHANICAL OPERATION

For 3 position selector switches

Handle position
(front side view)



Contacts block actuation
(back view)



Back side view

Non operated block



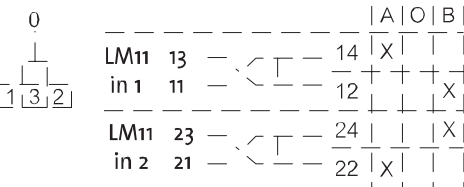
Operated block



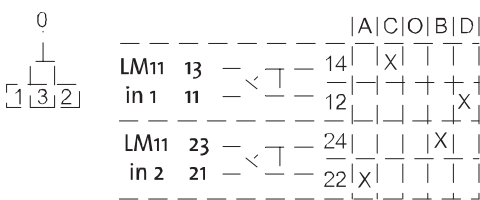
MECHANICAL OPERATION

For Joysticks

2 positions

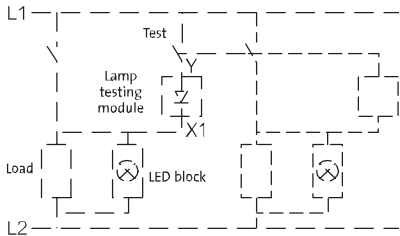


4 positions

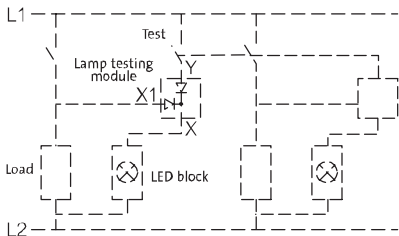


PUSH-TO-TEST LED PILOT LIGHT DIAGRAMS

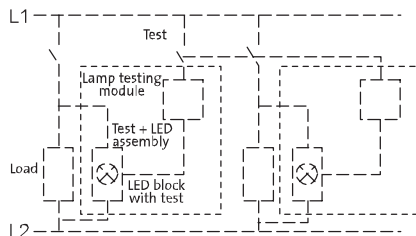
Lamp-testing module with
1 diode (33ET) for direct
supply 24 V and 48 V



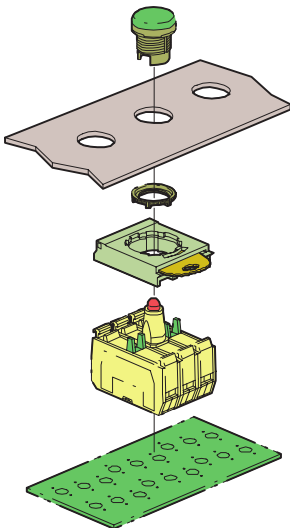
Lamp-testing module with
2 diodes (33ETT) for direct
supply 24 V and 48 V



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



PRINTED CIRCUIT BOARD MOUNTING



Frontelemente ø 22

IP 66

Mit Befestigungsmutter

Zur Kombination mit einem Adapter und Kontaktelementen (Seite 48)

Frontring Kunststoff verchromt - schwarzer Frontring auf Anfrage (siehe Formular Seite 79)

Nach Norm EN-IEC 60947-5-1



Technische Daten (Seite 94)
Vergleichstabelle (Seite 311)

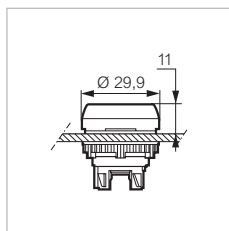
► DRUCKTASTER - BELEUCHTBAR

TASTEND - FLACH

Bestell-Nr.



L21AH20



Ohne Bezeichnung

- Rot
- Grün
- Gelb
- Weiß
- Blau

L21AH10
L21AH20
L21AH40
L21AH50
L21AH60

Mit Bezeichnung nach Kundenwunsch (Seite 70)

Symbolcode an Bestellnummer anhängen

- Rot
- Grün
- Gelb
- Weiß
- Blau

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

Ohne Taste

Tasten (siehe Seite 74)

L21AH00



L21AH00

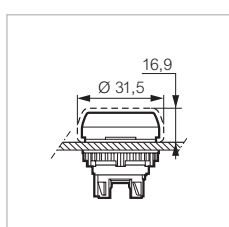
TASTEND - FLACH

Für Schutzart IP 67

Bestell-Nr.



L22AP40



Dichtungshaube transparent

- Rot
- Grün
- Gelb
- Weiß
- Blau

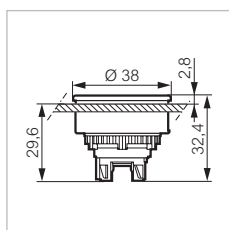
L22AP10
L22AP20
L22AP40
L22AP50
L22AP60

TASTEND - SUPER-FLACH

Bestell-Nr.



L23AH10



Frontring Metall verchromt
Bohrung ø 30,5 mm

Ohne Bezeichnung

- Rot
- Grün
- Gelb
- Weiß
- Blau

L23AH10
L23AH20
L23AH40
L23AH50
L23AH60

Mit Bezeichnung nach Kundenwunsch (Seite 70)

Symbolcode an Bestellnummer anhängen

- Rot
- Grün
- Gelb
- Weiß
- Blau

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

Bestellnummern in Fettdruck: ab Lager erhältliche Produkte

Separate units ø 22: Heads

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



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

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

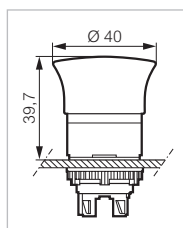
Ø 40 EN 418/ISO 13850 - STAY-PUT

Push-pull to reset

Cat. No.



L22DR01



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

● Red

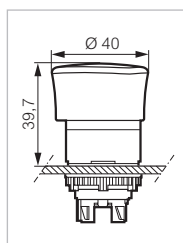
L22DR01

Ø 40 EN 418/ISO 13850 - STAY-PUT

Push-turn to reset



L22ER01



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

● Red

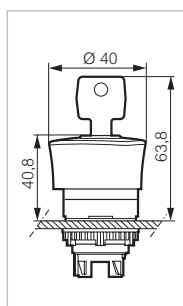
L22ER01

Ø 40 EN 418/ISO 13850 - STAY-PUT

Key to reset



L22GR01



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

● Red

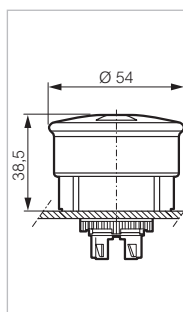
L22GR01

Ø 54 EN 418/ISO 13850 - STAY-PUT

Push-pull to reset with flag indicator



L22DU01



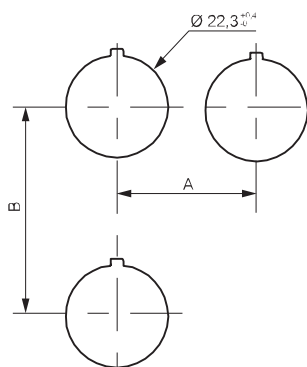
Double position indicator: head and collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850

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

L22DU01A
L22DU01

Panel cut-out

DRILLING

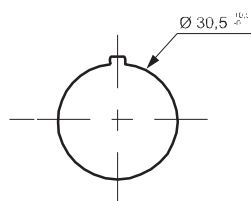


For heads equipped with electrical blocks with screw or plug-in terminals

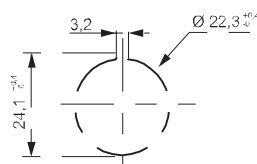
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A	> 40	For mushroom head Ø 40
	> 45	For selector switch with long handle
	= 38	For super-flush button
	= 50	With 5 position clip
	= 45	With or without legend plate (usual case)
B	= 54	With double touch
	= 77	With double touch + legend plate
	= 50	Joystick

DRILLING FOR SUPER-FLUSH BUTTON

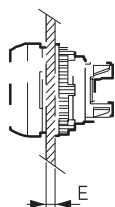


DRILLING WHEN USING THE ANTI-ROTATION RING (OPTIONAL)



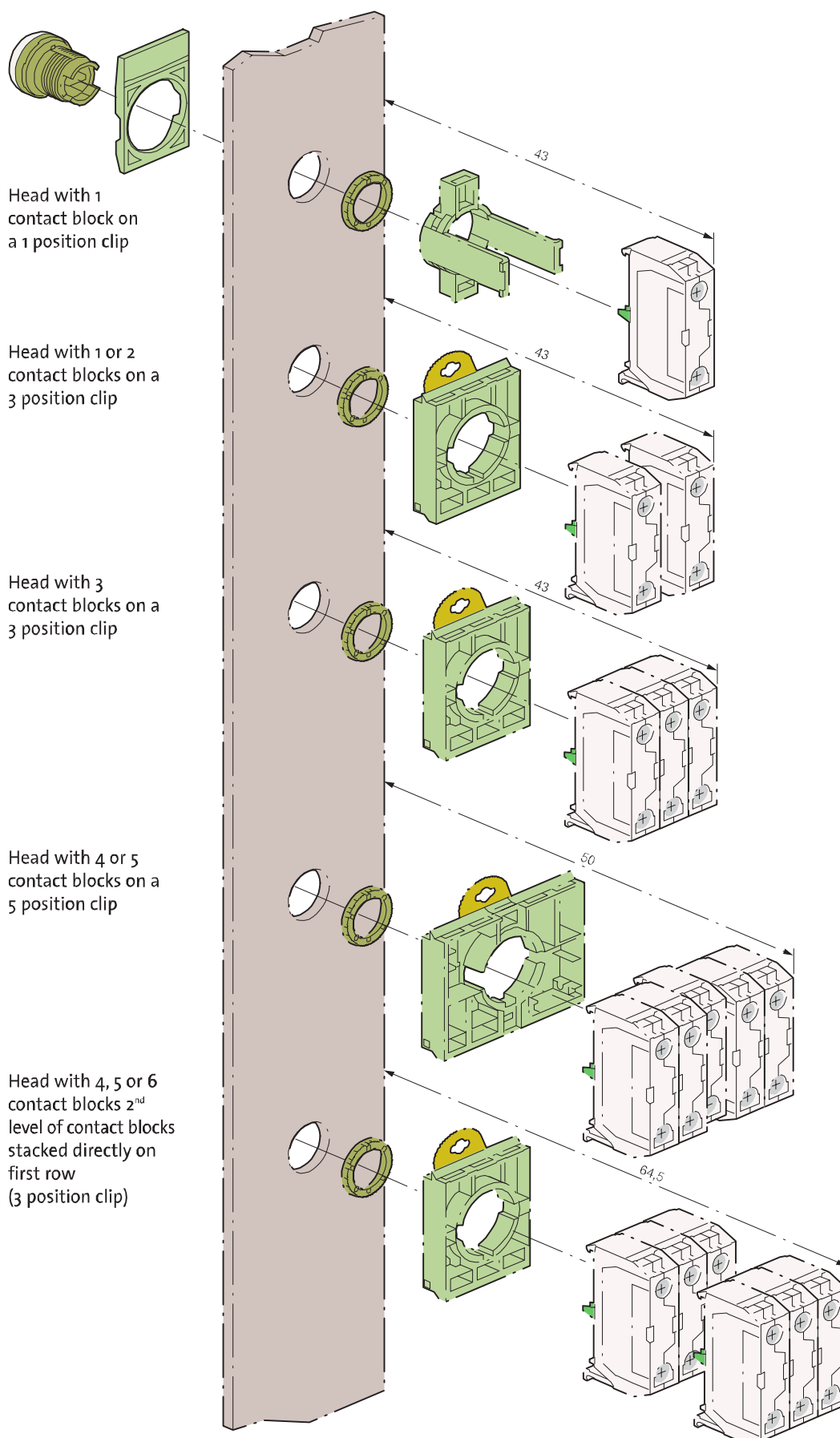
THICKNESS OF PANEL (E)

E = 1 to 6 mm



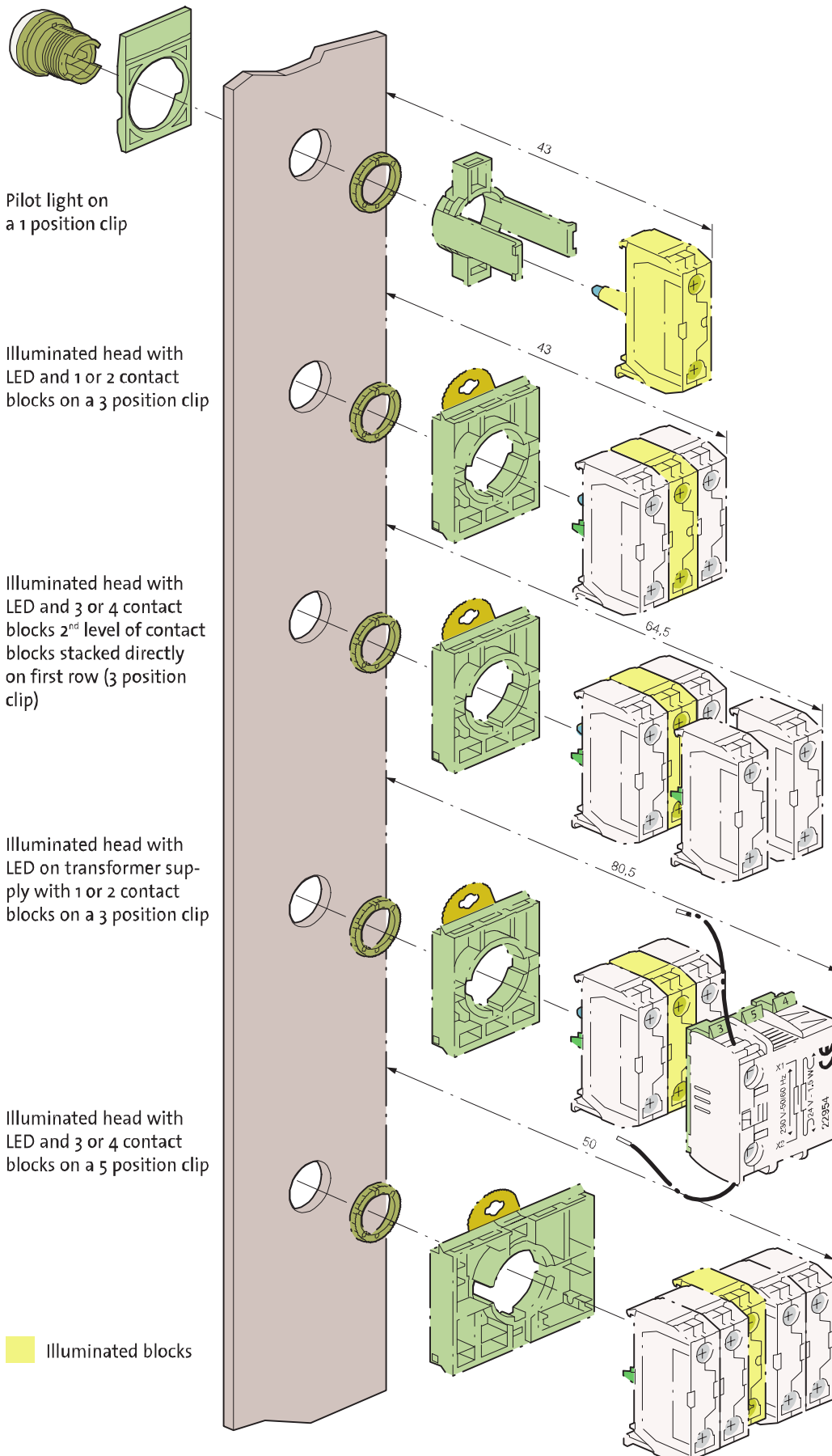
Mounting blocks $\varnothing 22$

NON ILLUMINATED



Mounting blocks $\varnothing 22$

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/EN 60947-1 UL 508
► NC contacts	Positive opening		IEC/EN 60947-5-1
► Rated impulse voltage U _{imp} Pollution degree	6 kV 3		
► Conventional thermal current in free air conditions	AC15: 10 A DC13: 2,5 A		IEC 60947-5-1
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► Applicable wire sizes	Rigid or flexible wire without ferrule: 0,5 mm ² to 2 x 2,5 mm ² Rigid or flexible wire with ferrule: 0,5 mm ² to 2 x 1,5 mm ²		

Faston connection	Data		Standards
► Rated insulation voltage	320 V AC 300 V AC		IEC/EN60947-1 UL 508
► NC contacts	Positive opening		IEC/EN 60947-5-1
► Rated impulse withstanding voltage U _{imp} Pollution degree	6 kV 3		
► Conventional thermal current in free air conditions	AC 15: 10 A DC 13: 2,5 A		IEC 60947-5-1
► Electrical ratings	Alternating current AC15 - A 300 U _e = 120 V, I _e = 6 A U _e = 240 V, I _e = 3 A Minimum current of use U _e = 24 V DC and I _e = 5 mA Failure rate < 10 ⁻⁸	Direct current DC13 - Q 300 U _e = 125 V, I _e = 0,55 A U _e = 250 V, I _e = 0,27 A - DC13 - R 300 U _e = 125 V, I _e = 0,22 A U _e = 250 V, I _e = 0,1 A	IEC 60947-5-1
► Electrical operating life	1 million cycles for: - AC15 - B 300 U _e = 120 V, I _e = 3 A U _e = 240 V, I _e = 1,5 A	- DC13 - R 300 U _e = 125 V, I _e = 0,22 A U _e = 250 V, I _e = 0,1 A	
► Faston size	6,35 mm or 2 x 2,8 mm		

Technical characteristics

▶ CONTACT BLOCKS

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

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

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

Technical characteristics

▶ ONE PIECE PILOT LIGHT BA9S

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

▶ HEADS

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

▶ EMERGENCY STOP ACTUATORS - EN 418:

For equipment subject to Machine Security Directive CE 98/37 and EN60204 standard.

BACO emergency stop switches EN418 and contact blocks meet the requirements of the European Machine Directive EN 418 and EN60947-5-5 specification.

Our E-stops provide the "fool-proof" or "tease-proof" emergency stop switch feature - described below, that latches in the emergency stop command and then switches the contact state to open the circuit and shut down the equipment.

"After the emergency stop command has been generated during actuation of the emergency stop device, the command shall be maintained by engagement (latching-in) of the actuating means. The emergency stop command shall be maintained until the emergency stop device is reset (disengaged). It shall not be possible for the emergency stop device to engage without generating the stop command."

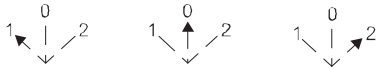
Simply stated, this directive indicates that the latching mechanism of the switch is activated when the actuator is pushed to a certain point. The switch will continue to remain in this latched position until manually reset by twisting to release.

Diagrams

MECHANICAL OPERATION

For 3 position selector switches

Handle position
(front side view)



Contacts block actuation
(back view)



Back side view

Non operated block



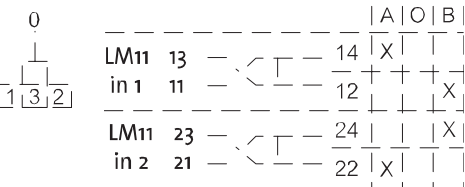
Operated block



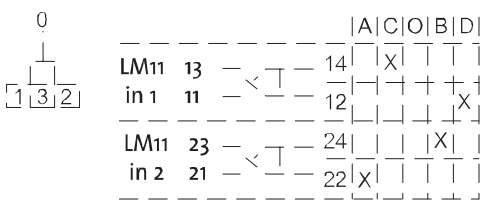
MECHANICAL OPERATION

For Joysticks

2 positions

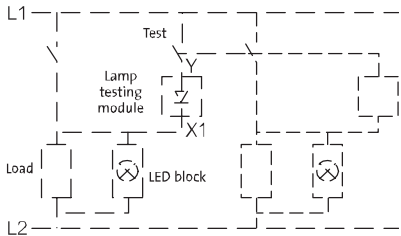


4 positions

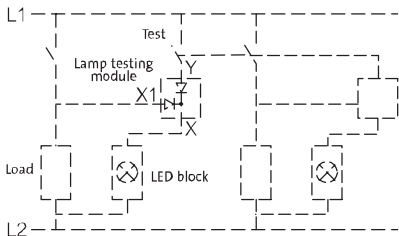


PUSH-TO-TEST LED PILOT LIGHT DIAGRAMS

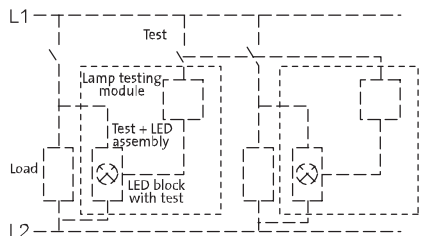
Lamp-testing module with
1 diode (33ET) for direct
supply 24 V and 48V



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

