



### Introduction

Backed by the experience and knowledge acquired in over 25 years of activity in the automation world, Pizzato Elettrica confirms its capacity of proposing, even in new sectors, innovative solutions which succeed in combining an extremely practical and flexible operation with an accurately detailed linear design. The new EL AN series lift control stations by Pizzato Elettrica incorporate these latest features, and they use articles from the EROUND line as control and signalling devices. The EL AN series lift control stations have been designed to pilot the movement of lifts during control and maintenance operations.

### Modularity

The control stations have been designed with the precise objective to make them as user-friendly as possible for maintenance operators, as well as to provide the widest and most versatile choice in the combination of applicable devices.

These diverse options are made possible thanks to the innovative construction of the enclosures cover (registered patent) which allows free arrangement of the perforated holes and shapes for housing various devices; such insert elements make up the whole cover, just one solid piece produced by means of a single moulding process.



### Wide range

The range of EL AN series control stations includes 4 dimensions and several configurations.

The outlines and details of the new EL AN series control stations have been accurately designed, which contributes to an attractive aesthetic result.



### Cam switch and selector:



In control station EL AN series can be installed rotary cam switches EH series as an alternative to the E2 series switches.

The cam switch is matched with a wide ergonomic actuation knob, available in versions with two and three stay-put positions; it can also be configured with contact diagrams according to customer requirements up to a maximum number of 8 contacts.

The covers dedicated to house the cam switches provide a suitable slot with protection guard.

Equipped with gasket below the knob provides an IP65 protection degree.

### Tread-safe

EL AN series control stations can bear any impact and stress thanks to their specific design and resistant materials, fitted for heavy-duty application.



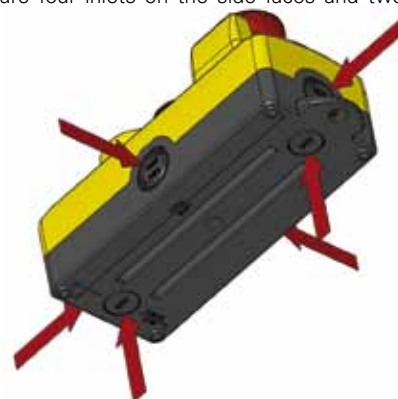
### Sturdiness

The devices are guaranteed protection against knocks and treading both by the use of sturdy guards for particularly bulky auxiliary control devices, such as the emergency pushbutton or the selector, makes the product suitable for especially heavy-duty installation areas.



### Cable entries

The control station EL AN base features numerous possible knockout entries for the passage of cables, in order to ensure easy wiring. The control stations feature four inlets on the side faces and two inlets on the lower face.



### Electrical socket

The inside of the electrical socket is protected against the risk of accidental contact by means of a special removable cover.

A separator (applicable in different positions) is available, to be used to separate those parts of the control stations having different voltage.

The electrical socket is always fitted to the top of the control station and not to the side, so as to make its use more convenient and its position more readily identifiable.

Available in different types, it perfectly adapts to the standards in force in the country where the lift is installed.



### LASER marking

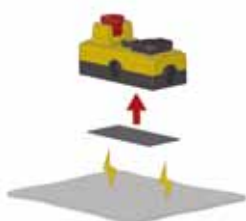


Pizzato Elettrica has introduced a new LASER marking system for control stations EL AC series.

Thanks to this system, which excludes the use of pad printing or labels, product marking is indelible and durable.

LASER markings for control stations EL AC series are now enriched with pictograms and symbols according to new standard 81-20; control stations can also be customized with indications, symbols and customer logos.

### Magnetic bases



All control stations EL AN series can be supplied with a magnetic base applied to the bottom of the box; in this way it will be possible to anchor the control stations to metal walls and surfaces in a removable manner without needing to drill. Adhesive magnetic bases can be applied at a later time.

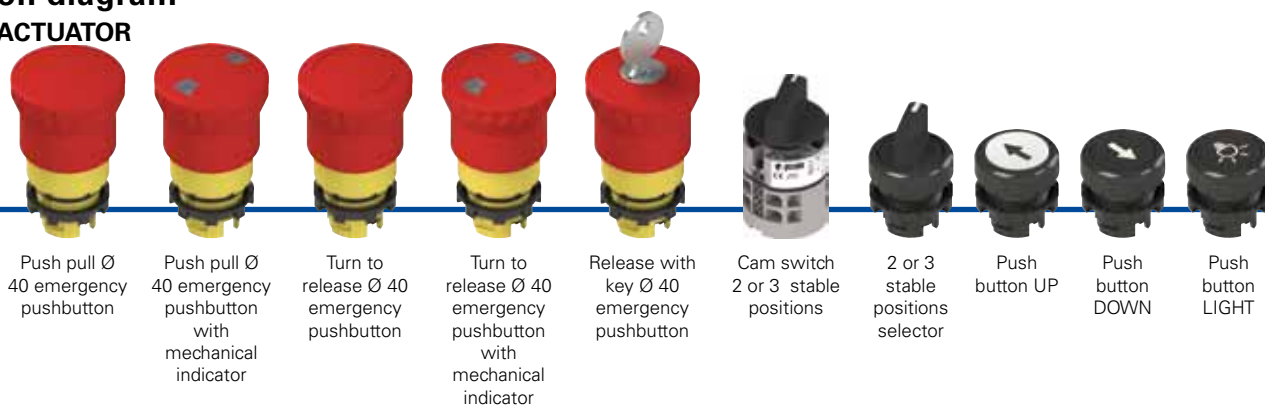
### Electrical panel hanging hook



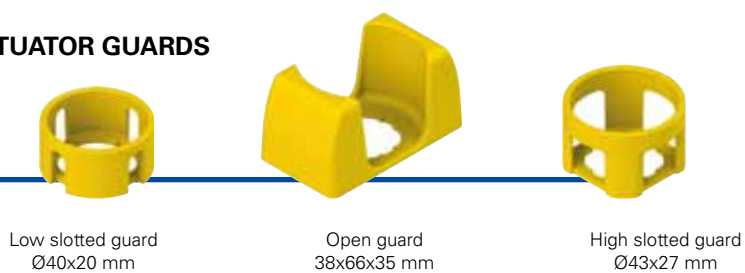
On request, the EL AN series control stations can be equipped with a special hook to hang the control stations directly on a wall or onto the electrical panel.

## Selection diagram

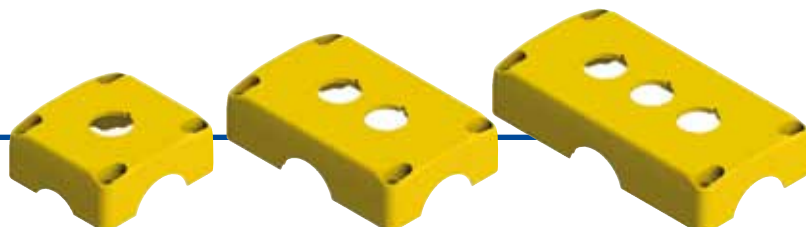
## ACTUATOR



## ACTUATOR GUARDS

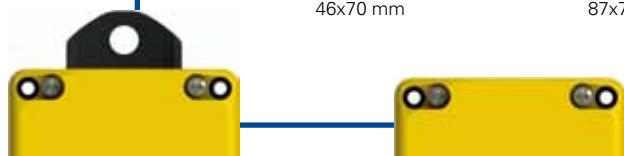
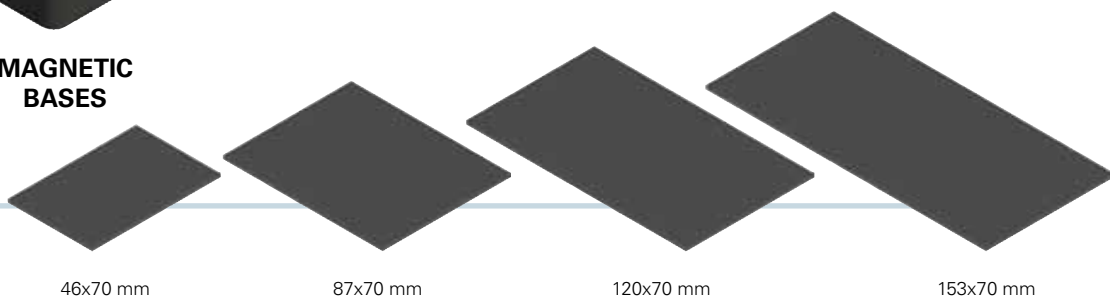


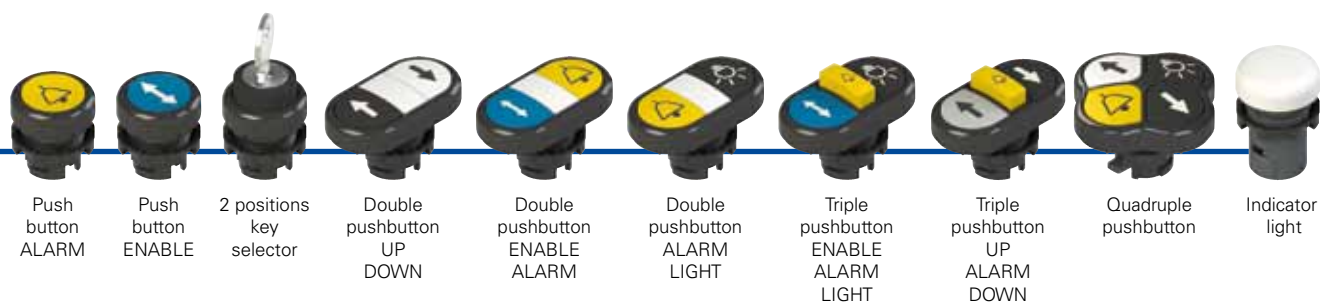
## COVER



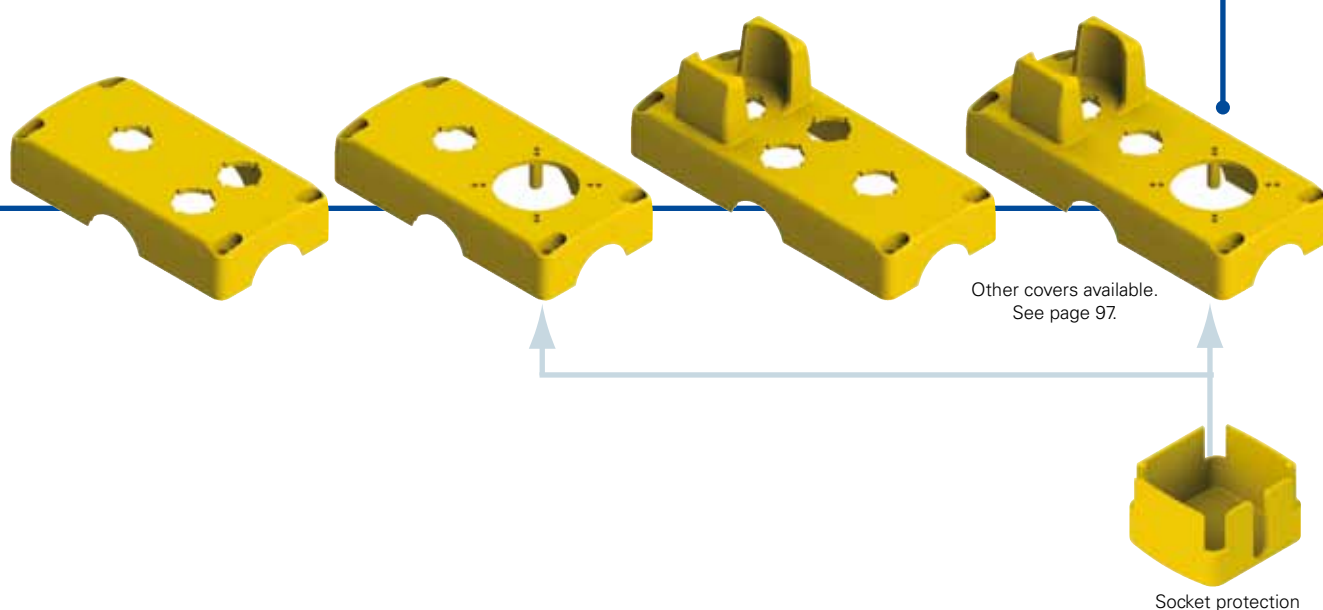
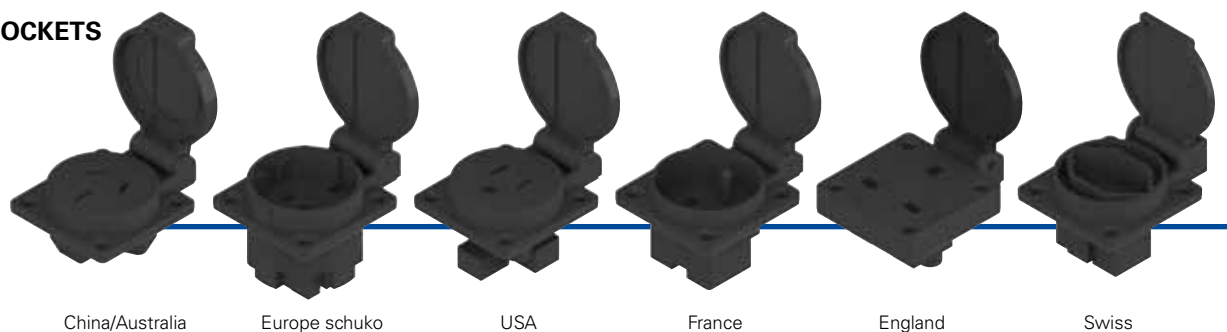
## BASES

## MAGNETIC BASES





## SOCKETS



## Code structure

**Attention!** The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

## EL AN23000

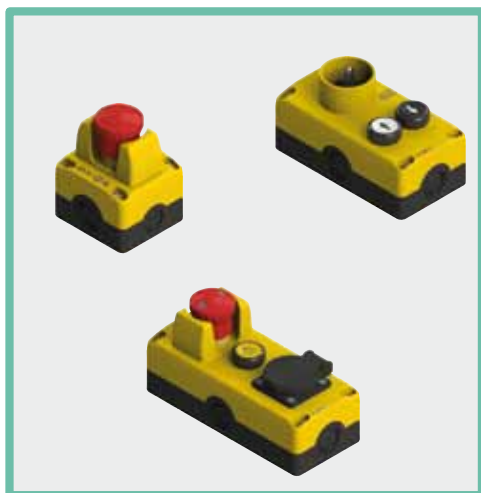
### Box shape

1	72x80h56 mm
2	120x80h56 mm
3	153x80h56 mm
4	186x80h56 mm

### Configuration progressive number

000	configuration 000
001	configuration 001
...	...





### Main data

- Different configurations available
- Protection degree IP54 or IP65 or IP67
- Actuator guards
- Internal and external fixing
- Customized sockets
- Retained screws

### Markings and quality marks (enclosures):



### Markings and quality marks (contact blocks):



Approval IMQ: CA02.04805  
 Approval UL: E131787  
 Approval CCC: 2013010305631156  
 Approval EAC: RU C-IT DM94.B.01024

### Technical data

#### Housing

Made of shock-proof, self-extinguishing polymer with double insulation , UV resistant.  
 1 element box:  
 2 lateral knock out conduit entries M20 - M25 - PG 13.5 - 1/2 NPT  
 2 lateral knock out conduit entries M20 - PG 13.5 - 1/2 NPT  
 2 bottom knock out conduit entries M16 - PG 11  
 2 or more elements boxes:  
 4 lateral knock out conduit entries M20 - M25 - PG 13.5 - 1/2 NPT  
 2 bottom knock out conduit entries M20 - PG 13.5 - 1/2 NPT  
 Base colour: Black RAL 9005  
 Cover colour: Yellow RAL 1023  
 Screws materials: Galvanized steel, stainless steel on request  
 Protection degree: IP54 according to IEC 60529  
 IP65 (on request on some articles) according to IEC 60529  
 IP67 (on request on some articles) according to IEC 60529 with cable gland having equal or higher protection degree

#### General data

Ambient temperature: -25°C ... +80°C  
 Cover screws driving torque: 1 ... 1.4 Nm

#### In conformity with standards:

IEC 60947-1, IEC 60947-5-1, IEC 60204-1, EN 60947-1, EN 60947-5-1, EN 60204-1, UL 508, CSA 22-2 N°14, EN 81-20, EN 81-50

#### ⚠ Installation for safety applications:

Use only switches marked with the symbol . The safety circuit must always be connected with the **NC contacts** (normally closed contacts: 1-2) as stated in the standard ISO 14119, par. 5.4.

#### In conformity with requirements requested by:

Low Voltage Directive 2006/95/EC, Machinery Directive 2006/42/EC and EMC Directive 2004/108/EC.

#### Positive contact opening in conformity with standards:

IEC 60947-5-1, EN 60947-5-1, VDE 0660-206.

### Electrical data

Thermal current (I<sub>th</sub>): 10 A  
 Rated insulation voltage (U<sub>i</sub>): 600 Vac/dc  
 Protection against short circuits: fuse 10 A 500 V type gG/gL  
 Rated impulse U<sub>imp</sub>: 6 kV  
 Pollution degree: 3

### Utilization categories

Alternate current: AC15 (50÷60 Hz)  

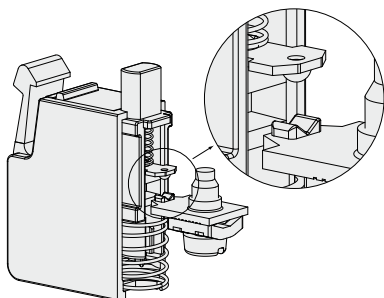
U <sub>e</sub> (V)	24	48	120	250	400
I <sub>e</sub> (A)	6	6	6	6	3

 Direct current: DC13  

U <sub>e</sub> (V)	24	125	250
I <sub>e</sub> (A)	2.5	0.6	0.3

### High reliability self-cleaning contacts

"V shape" self-cleaning contacts with quadruple contact points. This shape, thanks to its quadruple support, allows to reduce the probability of contact wrong switching. Furthermore it highly improves the contacts reliability in case of dust ( registered patent).



### Positive opening

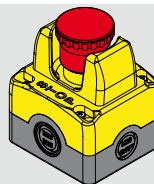
NC contact blocks are suitable for safety application, with positive opening contacts according to IEC 60947-5-1.

### Data type approved by UL

Utilization category: A600 pilot duty (720 VA, 120-600 Vac)  
 Q300 pilot duty (69 VA, 125-250 Vdc)

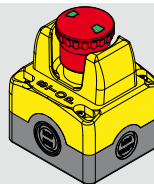
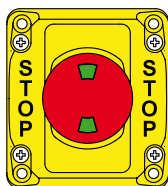
Note:  
 - Use copper wire (Cu) 60 or 75 °C rigid or flexible with cross section 12-20 AWG.  
 - Terminals tightening torque 7.1 Lb In (0.8 Nm).

## EL AN21256



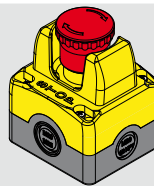
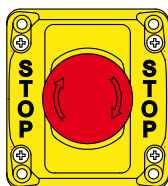
Description	Features	Wiring layout
<b>Emergency pushbutton Ø 40 - 1NC</b> E2 1PEPZ4531 Open guard VE GP22F5A Contacts 1x E2 CP01G2V1	push-pull, 40 mm diameter, red colour  open rectangular, yellow colour	
	<div>pos 2 /</div> <div>pos 3 1NC ⊖</div> <div>pos 1 /</div>	

## EL AN21223



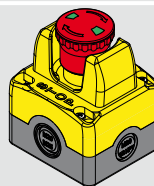
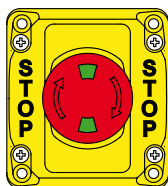
Description	Features	Wiring layout
<b>Emergency pushbutton Ø 40 - 1NC</b> E2 1PEPF4531 Open guard VE GP22F5A Contacts 1x E2 CP01G2V1	push-pull, with mechanical indicator, 40 mm diameter, red colour  open rectangular, yellow colour	
	<div>pos 2 /</div> <div>pos 3 1NC ⊖</div> <div>pos 1 /</div>	

## EL AN21224



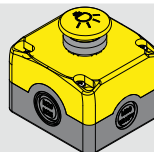
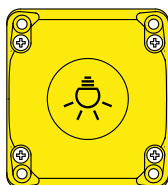
Description	Features	Wiring layout
<b>Emergency pushbutton Ø 40 - 1NC</b> E2 1PERF4531 Open guard VE GP22F5A Contacts 1x E2 CP01G2V1	turn to release, 40 mm diameter, red colour  open rectangular, yellow colour	
	<div>pos 2 /</div> <div>pos 3 1NC ⊖</div> <div>pos 1 /</div>	

## EL AN21257

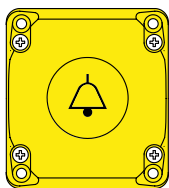


Description	Features	Wiring layout
<b>Emergency pushbutton Ø 40 - 1NC</b> E2 1PERF4531 Open guard VE GP22F5A Contacts 1x E2 CP01G2V1	turn to release, with mechanical indicator, 40 mm diameter, red colour  open rectangular, yellow colour	
	<div>pos 2 /</div> <div>pos 3 1NC ⊖</div> <div>pos 1 /</div>	

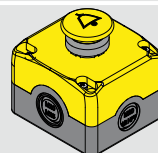
## EL AN21220



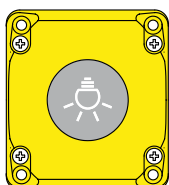
Description	Features	Wiring layout
<b>Illuminated mushroom pushbutton Ø36 LIGHT - 1NO</b> E2 1PL2F541L16 LED holders E2 LP1A2V1 Contacts 1x E2 CP10G2V1	36 mm diameter, spring-return, yellow colour  White LED, 12 ... 30 Vac/dc	
	<div>pos 2 /</div> <div>pos 3 LED</div> <div>pos 1 1NO</div>	



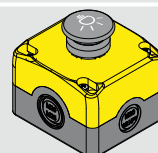
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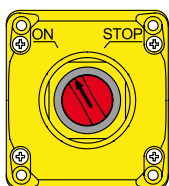
Description	Features	Wiring layout
<b>Mushroom pushbutton Ø 36 ALARM - 1NO</b> E2 1PU2F541L14	36 mm diameter, spring-return, yellow colour	
Contacts 1x E2 CP10G2V1	pos 2 /      pos 3 1NO      pos 1 /	



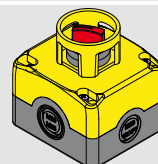
## EL AN21222



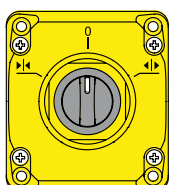
Description	Features	Wiring layout
<b>Mushroom pushbutton Ø 36 LIGHT - 1NO</b> E2 1PU2F141L16	36 mm diameter, spring-return, black colour	
Contacts 1x E2 CP10G2V1	pos 2 /      pos 3 1NO      pos 1 /	



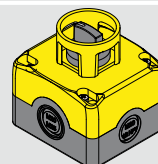
## EL AN21258



Description	Features	Wiring layout
<b>Short handle selector - 1NC</b> E2 1SE12AVA31AF	2 stay-put positions, red colour	ON
Ø 43 guard VE GP22B5A	43 mm diameter, yellow colour	
Contacts 1x E2 CP01G2V1	pos 2 /      pos 3 1NC ⊖      pos 1 /	STOP



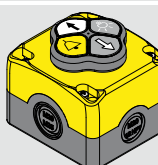
## EL AN21255



Description	Features	Wiring layout
<b>Short handle selector - 2NO</b> E2 1SE13GCE11AB	3 positions spring return - stay put - spring return, black colour	
Ø 43 guard VE GP22B5A	43 mm diameter, yellow colour	
Contacts 2x E2 CP10G2V1	pos 2 1NO      pos 3 /      pos 1 1NO	

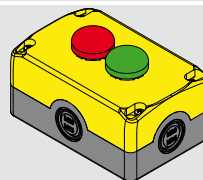
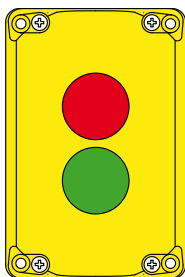


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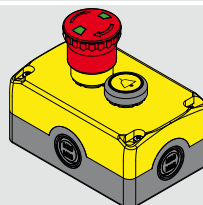
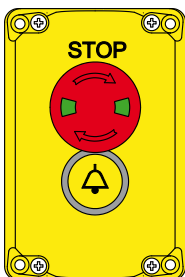
Description	Features	Wiring layout
<b>Quadruple pushbuttons - 4NO</b> E2 1PQFA1QAAQ	flush, spring-return white colour	
Contacts 4x E2 CP10G2V1	flush, spring-return black colour	
	flush, spring-return black colour	
	flush, spring-return yellow colour	
	pos 2 1NO      pos 3 1NO      pos 4 1NO      pos 1 1NO	

## EL AN22012



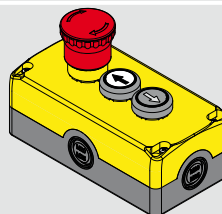
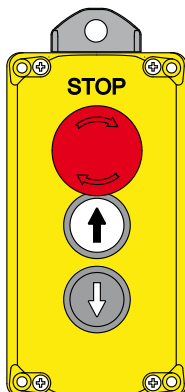
Description	Features	Wiring layout
<b>Monolithic indicator light Ø 30</b> E6 1IL1A3110	30 mm diameter, red colour red, 12 ... 30 Vac/dc	
<b>Monolithic indicator light Ø 30</b> E6 1IL1A4110	30 mm diameter, green colour green, 12 ... 30 Vac/dc	

## EL AN22027



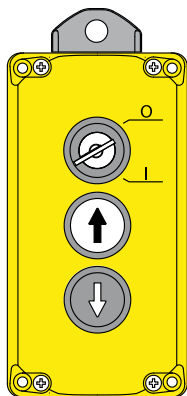
Description	Features	Wiring layout
<b>Emergency pushbutton Ø 40 - 1NC</b> E2 1PERF4531 Contacts 1x E2 CP01G2V1	turn to release, with mechanical indicator, 40 mm diameter, red colour pos 2 / pos 3 1NC ⊖ pos 1 /	
<b>Pushbutton ALARM - 1NO</b> E2 1PU2R521L32 Contacts 1x E2 CP10G2V1	flush, spring-return, black colour pos 2 / pos 3 1NO pos 1 /	

## EL AN23017

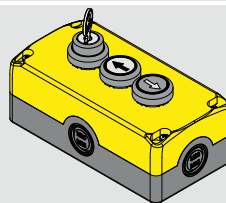


Description	Features	Wiring layout
<b>Emergency pushbutton Ø 40 - 1NC</b> E2 1PERZ4531 Contacts 1x E2 CP01G2V1	turn to release, 40 mm diameter, red colour pos 2 / pos 3 1NC ⊖ pos 1 /	
<b>Pushbutton UP - 1NO</b> E2 1PU2R221L9 Contacts 1x E2 CP10G2V1	flush, spring-return, white colour pos 2 / pos 3 1NO pos 1 /	
<b>Pushbutton DOWN - 1NO</b> E2 1PU2R121L10 Contacts 1x E2 CP10G2V1	flush, spring-return, black colour pos 2 / pos 3 1NO pos 1 /	

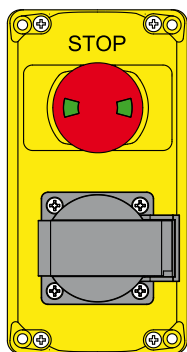




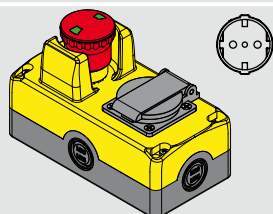
EL AN23019



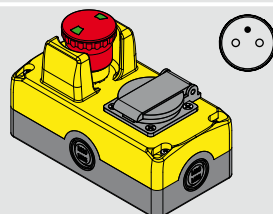
Description	Features			Wiring layout
<b>Key selector - 1NO</b> E2 1SC2AVA11AA	2 stay-put positions, "0" key withdrawal position, black colour			0
Contacts 1x E2 CP10G2V1	pos 2 /	pos 3 1NO	pos 1 /	1
<b>Pushbutton UP - 1NO</b> E2 1PU2R221L9	flush, spring-return, white colour			
Contacts 1x E2 CP10G2V1	pos 2 /	pos 3 1NO	pos 1 /	
<b>Pushbutton DOWN - 1NO</b> E2 1PU2R121L10	flush, spring-return, black colour			
Contacts 1x E2 CP10G2V1	pos 2 /	pos 3 1NO	pos 1 /	



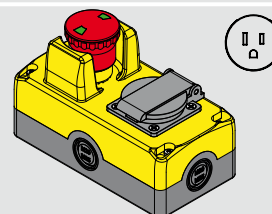
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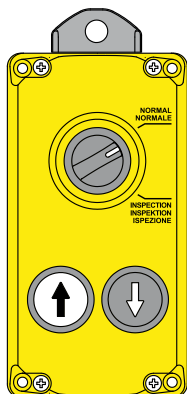
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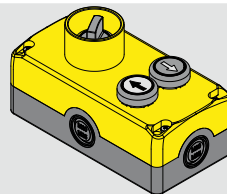
EL AN23027



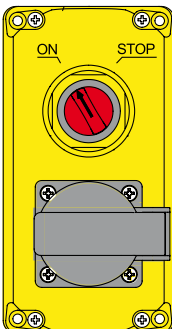
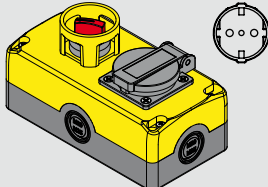
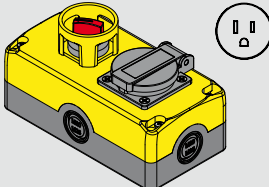





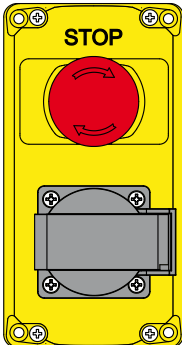
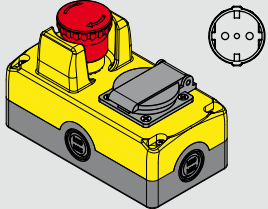
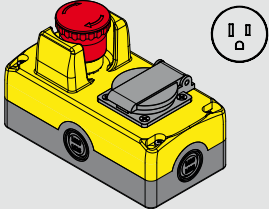




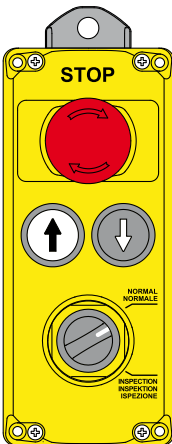
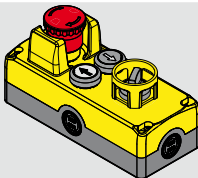





Description	Features			Wiring layout
<b>Emergency pushbutton Ø 40 - 1NC</b> E2 1PEPF4531 Open guard VE GP22F5A	push-pull, with mechanical indicator, 40 mm diameter, red colour			
Contacts 1x E2 CP01G2V1	pos 2 /	pos 3 1NC ⊕	pos 1 /	
<b>Socket</b>	Features see on page 95			Schuko 16 A 250 Vac
Internal protection VE GG2BA5A	internal, yellow colour			France 16 A 250 Vac
				USA 15 A 125 Vac

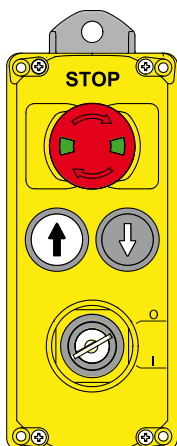


EL AN23052

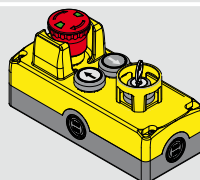


Description	Features				Wiring layout
<b>Short handle selector - 2NC+2NO</b> E2 1SE12AVA11AB	2 stay-put positions, black colour				NORMAL
Contacts 2x E2 CP01G2V1+2x E2 CP10G2V1	pos 3 1NC ⊕	pos 2 1NC ⊖	pos 4 1NO	pos 1 1NO	INSPECTION
<b>Pushbutton UP - 1NO</b> E2 1PU2R221L7	flush, spring-return, white colour				
Contacts 1x E2 CP10G2V1	pos 2 /	pos 3 1NO	pos 1 /		
<b>Pushbutton DOWN - 1NO</b> E2 1PU2R121L8	flush, spring-return, black colour				
Contacts 1x E2 CP10G2V1	pos 2 /	pos 3 1NO	pos 1 /		

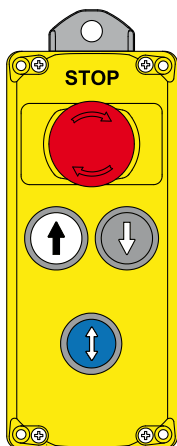
	<div>EL AN23022</div> <div></div>	<div>EL AN23025</div> <div></div>	<div>EL AN23028</div> <div></div>
	<div>Description</div> <div>Short handle selector - 1NC E2 1SE12AVA31AF Ø 43 guard VE GP22B5A Contacts 1x E2 CP01G2V1</div> <div>Socket</div> <div>Internal protection VE GG2BA5A</div>	<div>Features</div> <div>2 stay-put positions, red colour  43 mm diameter, yellow colour</div> <div>pos 2 /      pos 3 1NC ⊖      pos 1 /</div> <div>Features see on page 95  internal, yellow colour</div>	<div>Wiring layout</div> <div>ON </div> <div>STOP </div> <div> Schuko 16 A 250 Vac  France 16 A 250 Vac  USA 15 A 125 Vac</div>
	<div>EL AN23023</div> <div></div>	<div>EL AN23026</div> <div></div>	<div>EL AN23029</div> <div></div>
	<div>Description</div> <div>Emergency pushbutton Ø 40 - 1NC E2 1PERZ4531 Open guard VE GP22F5A Contacts 1x E2 CP01G2V1</div> <div>Socket</div> <div>Internal protection VE GG2BA5A</div>	<div>Features</div> <div>turn to release, 40 mm diameter, red colour  open rectangular, yellow colour</div> <div>pos 2 /      pos 3 1NC ⊖      pos 1 /</div> <div>Features see on page 95  internal, yellow colour</div>	<div>Wiring layout</div> <div></div> <div> Schuko 16 A 250 Vac  France 16 A 250 Vac  USA 15 A 125 Vac</div>
	<div>EL AN24111</div> <div></div>	<div>EL AN24111</div> <div></div>	
	<div>Description</div> <div>Emergency pushbutton Ø 40 - 1NC E2 1PERZ4531 Contacts 1x E2 CP01G2V1 Pushbutton UP - 2NO E2 1PU2R121L7 Contacts 2x E2 CP10G2V1 Pushbutton DOWN - 2NO E2 1PU2R121L8 Contacts 2x E2 CP10G2V1 Short handle selector - 2NC+2NO E2 1SE12AVA11AB Ø 43 guard VE GP22B5A Contacts 2x E2 CP01G2V1+2x E2 CP10G2V1</div>	<div>Features</div> <div>turn to release, 40 mm diameter, red colour</div> <div>pos 2 /      pos 3 1NC ⊖      pos 1 /</div> <div>flush, spring-return, white colour</div> <div>pos 2 1NO      pos 3 /      pos 1 1NO</div> <div>flush, spring-return, black colour</div> <div>pos 2 1NO      pos 3 /      pos 1 1NO</div> <div>2 stay-put positions, black colour</div> <div>43 mm diameter, yellow colour</div> <div>pos 2 1NC ⊖      pos 4 1NO      pos 3 1NO      pos 1 1NC ⊖</div>	<div>Wiring layout</div> <div></div> <div></div> <div></div> <div>NORMAL </div> <div>INSPECTION </div>



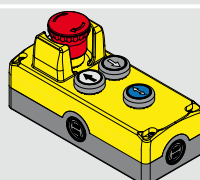
EL AN24023



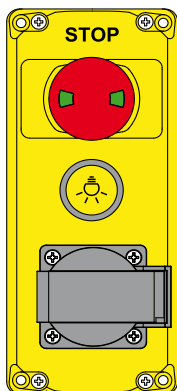
Description	Features	Wiring layout
<b>Emergency pushbutton Ø 40 - 1NC</b> E2 1PERF4531	turn to release, with mechanical indicator, 40 mm diameter, red colour	
Contacts 1x E2 CP01G2V1	pos 2 / pos 3 1NC ⊖ pos 1 /	
<b>Pushbutton UP - 2NO</b> E2 1PU2R221L7	flush, spring-return, white colour	
Contacts 2x E2 CP10G2V1	pos 2 1NO pos 3 / pos 1 1NO	
<b>Pushbutton DOWN - 2NO</b> E2 1PU2R121L8	flush, spring-return, black colour	
Contacts 2x E2 CP10G2V1	pos 2 1NO pos 3 / pos 1 1NO	
<b>Key selector - 1NO</b> E2 1SC2AVA11AA Ø 43 guard VE GP22B5A	2 stay-put positions, "0" key withdrawal position, black colour	
Contacts 1x E2 CP10G2V1	43 mm diameter, yellow colour pos 2 / pos 3 1NO pos 1 /	



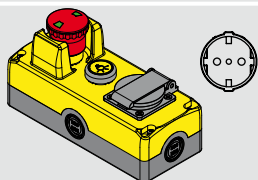
EL AN24024



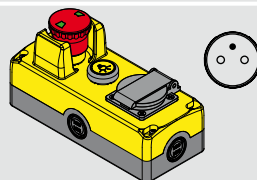
Description	Features	Wiring layout
<b>Emergency pushbutton Ø 40 - 1NC</b> E2 1PERZ4531	turn to release, 40 mm diameter, red colour	
Contacts 1x E2 CP01G2V1	pos 2 / pos 3 1NC ⊖ pos 1 /	
<b>Pushbutton UP - 1NO</b> E2 1PU2R221L7	flush, spring-return, white colour	
Contacts 1x E2 CP10G2V1	pos 2 / pos 3 1NO pos 1 /	
<b>Pushbutton DOWN - 1NO</b> E2 1PU2R121L8	flush, spring-return, black colour	
Contacts 1x E2 CP10G2V1	pos 2 / pos 3 1NO pos 1 /	
<b>Pushbutton ENABLE - 1NO</b> E2 1PU2R621L174	flush, spring-return, blue colour	
Contacts 1x E2 CP10G2V1	pos 2 / pos 3 1NO pos 1 /	



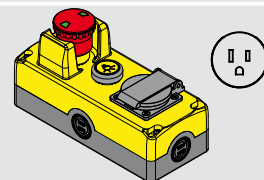
EL AN24025



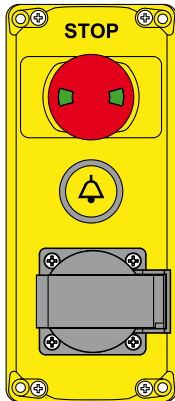
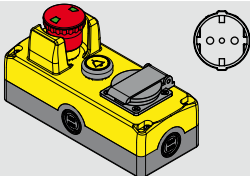
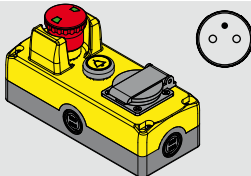
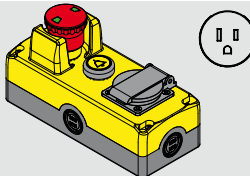





EL AN24029

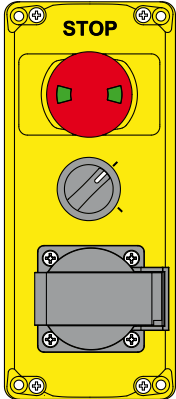
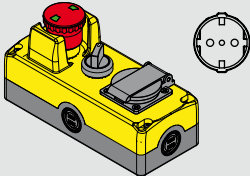
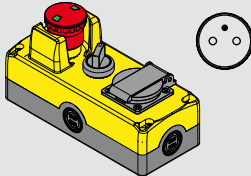
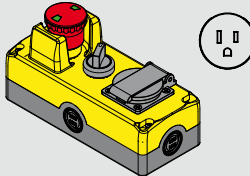








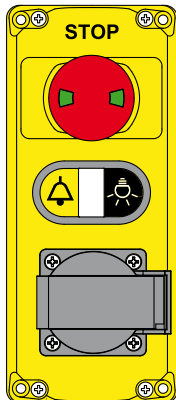
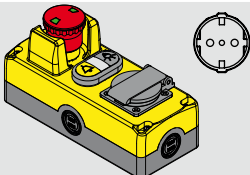
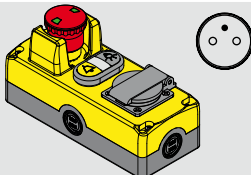
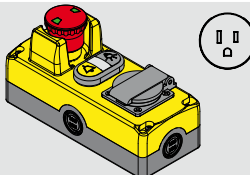






EL AN24033



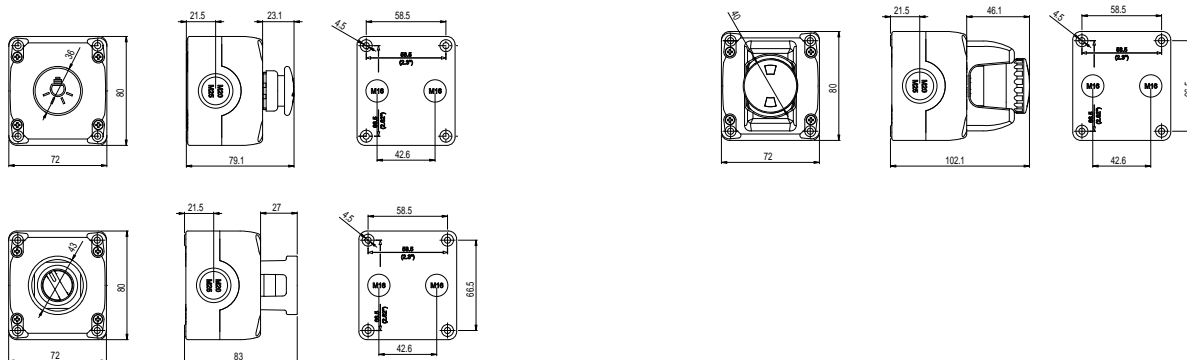
Description	Features	Wiring layout
<b>Emergency pushbutton Ø 40 - 1NC</b> E2 1PEPF4531	push-pull, with mechanical indicator, 40 mm diameter, red colour	
Contacts 1x E2 CP01G2V1	pos 2 / pos 3 1NC ⊖ pos 1 /	
<b>Illuminated pushbutton LIGHT - 1NO</b> E2 1PL2R521L41	flush, spring-return, yellow colour	
LED holders E2 LP1A2V1	white LED, 12 ... 30 Vac/dc	
Contacts 1x E2 CP10G2V1	pos 2 / pos 3 LED pos 1 1NO	Schuko 16 A 250 Vac France 16 A 250 Vac USA 15 A 125 Vac
<b>Socket</b>	Features see on page 95	
Internal protection VE GG2BA5A	internal, yellow colour	

	EL AN24026	EL AN24030	EL AN24034
			
	<b>Description</b> <b>Emergency pushbutton Ø 40 - 1NC</b> E2 1PEPF4531 <b>Contacts</b> 1x E2 CP01G2V1 <b>Pushbutton ALARM - 1NO</b> E2 1PU2R521L32 <b>Contacts</b> 1x E2 CP10G2V1 <b>Socket</b> Internal protection VE GG2BA5A/	<b>Features</b> push-pull, with mechanical indicator, 40 mm diameter, red colour pos 2 / pos 3 1NC ⊖ pos 1 / flush, spring-return, yellow colour pos 2 / pos 3 1NO pos 1 / Features see on page 95 internal, yellow colour	<b>Wiring layout</b>    Schuko 16 A 250 Vac  France 16 A 250 Vac  USA 15 A 125 Vac

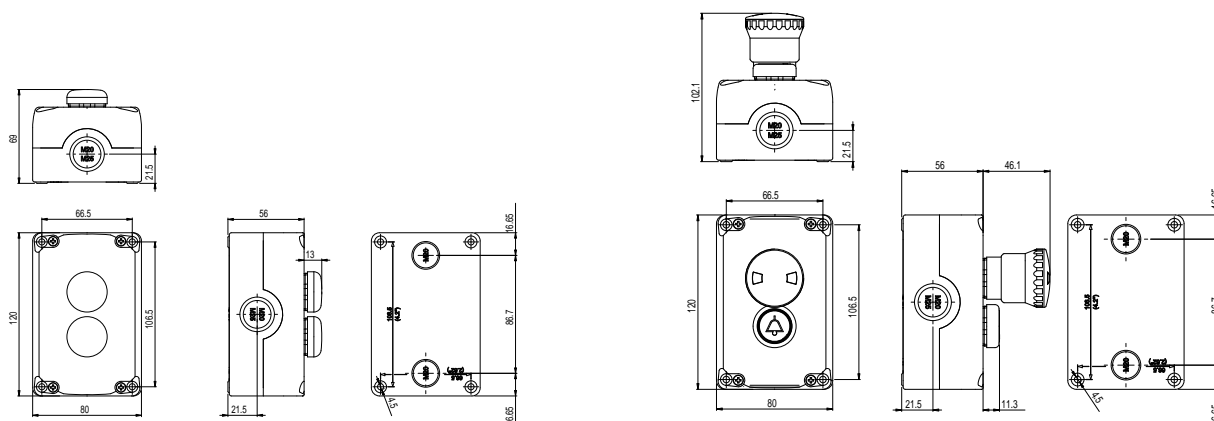
	EL AN24027	EL AN24031	EL AN24035
			
	<b>Description</b> <b>Emergency pushbutton Ø 40 - 1NC</b> E2 1PEPF4531 <b>Contacts</b> 1x E2 CP01G2V1 <b>Short handle selector - 1NO+1NC</b> E2 1SE12AVA11AB <b>Contacts</b> 1x E2 CP10G2V1+1x E2 CP01G2V1 <b>Socket</b> Internal protection VE GG2BA5A	<b>Features</b> push-pull, with mechanical indicator, 40 mm diameter, red colour pos 2 / pos 3 1NC ⊖ pos 1 / 2 stay-put positions, black colour pos 2 1NO pos 3 / pos 1 1NC ⊖ Features see on page 95 internal, yellow colour	<b>Wiring layout</b>     Schuko 16 A 250 Vac  France 16 A 250 Vac  USA 15 A 125 Vac

	EL AN24028	EL AN24032	EL AN24036
			
	<b>Description</b> <b>Emergency pushbutton Ø 40 - 1NC</b> E2 1PEPF4531 <b>Contacts</b> 1x E2 CP01G2V1 <b>Double pushbutton:</b> <b>ALARM - 1NO</b> <b>LIGHT - 1NO</b> E2 1PDRL1AABR <b>Contacts</b> 2x E2 CP10G2V1 <b>Socket</b> Internal protection VE GG2BA5A	<b>Features</b> push-pull, with mechanical indicator, 40 mm diameter, red colour pos 2 / pos 3 1NC ⊖ pos 1 / flush, spring-return yellow pushbutton ALARM pos 2 1NO white indicator light pos 3 / black pushbutton LIGHT pos 1 1NO Features see on page 95 internal, yellow colour	<b>Wiring layout</b>     Schuko 16 A 250 Vac  France 16 A 250 Vac  USA 15 A 125 Vac

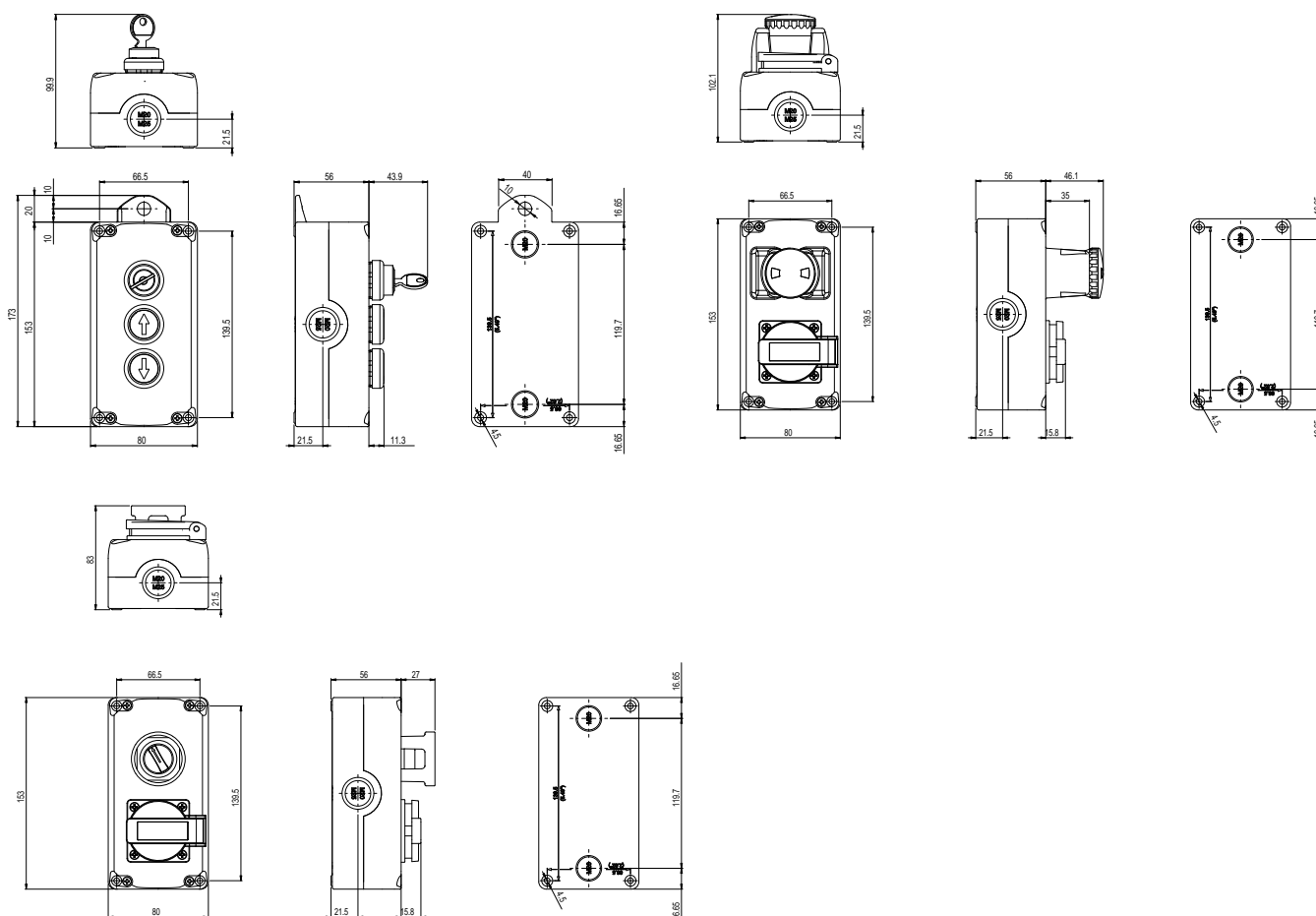
## Lift control stations EL AN 21••• series dimensions



## Lift control stations EL AN 22••• series dimensions

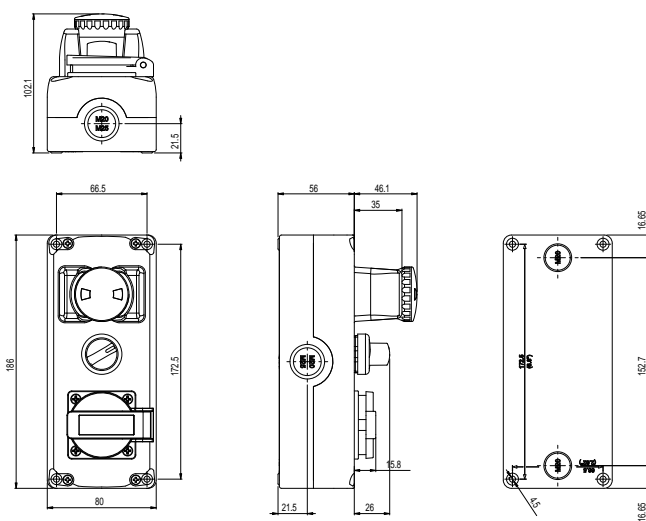
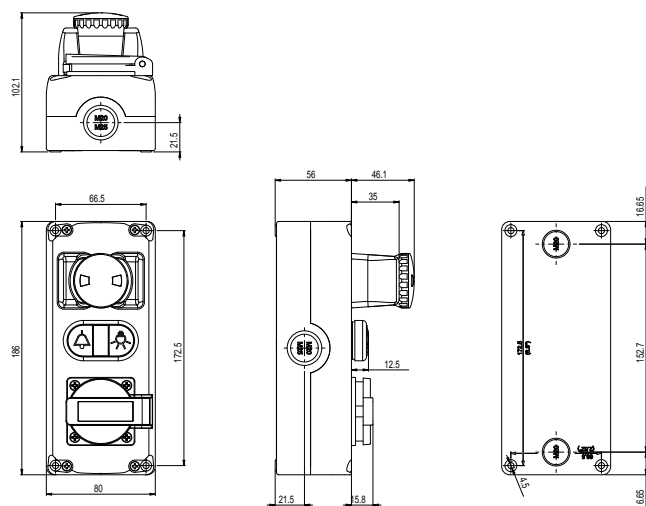
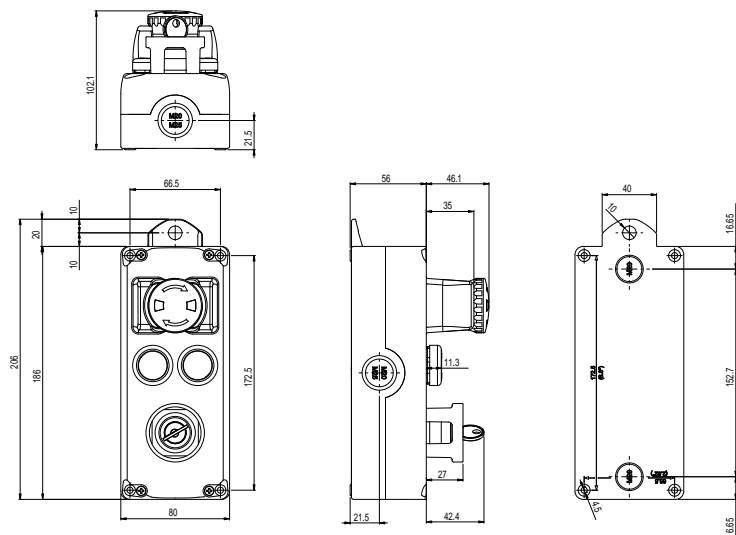


## Lift control stations EL AN 23••• series dimensions








## Lift control stations EL AN 24... dimensions





## Lift control stations EL AN 21••• series dimensions

					
Internal code	24151				






## Lift control stations EL AN 22••• series dimensions

					
Internal code	24201	24210			

## Lift control stations EL AN 23••• series dimensions

					
Internal code	24251	24260	24262	24263	

## Lift control stations EL AN 24••• dimensions

					
Internal code	24301	24310	24313	24315	24316

## Notes

A full-page sheet of white graph paper featuring a uniform grid of thin black lines. The grid consists of small squares covering the entire area of the page.

## Slotted protection guard



Article	Description
VE GP22A5A	Cylindrical yellow protection guard with 4 slots Ø 40x20 mm

It does not alter the device IP protection degree.

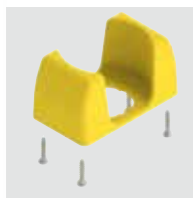
## Cylindrical protection guard



Article	Description
VE GP22B5A	Cylindrical yellow Ø43x27 mm protection guard

Not suitable for emergency pushbuttons E2 1PE••••• series  
It does not alter the device IP protection degree.

## Open protection guard



Article	Description
VE GP22F5A	Rectangular open yellow 66x38 h35 mm protection guard

## Blanking plug

10 pcs packs



**Technical data:**  
Body and nut material: polymer  
Protection degree: IP67 and IP69K  
Driving torque: from 2 to 2.5 Nm  
Installation prescriptions: page 3/98

Article	Description
E2 1TA1A110	Black blanking plug for Ø 22 mm holes

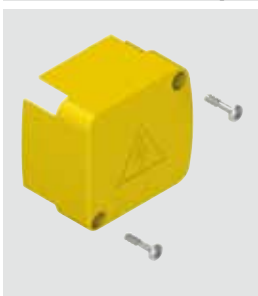
## Sockets with protection IP54



Sockets complete with 4 fixing screws

Article	Shape	Description
VE PE1E1AA1		Europe Schuko + Italy IEC 60884-1 with children protection 16 A 250 Vac
VE PE1E1BA1		USA UL498/NEMA5-15 CSA22.2 nr.42 15 A 125 Vac
VE PE1E1CA1		France CEE 7/V IEC 60884-1 NFC 61314 with children protection 16 A 250 Vac
VE PE1E1DA1		England BS1363 with children protection 13 A 250 Vac
VE PE1E1EA1		Swiss IEC 60884-1 SEV 1011 10 A 250 Vac
VE PE1E1FA1		Australia / China AS/NZS 3112 15A 250 Vac

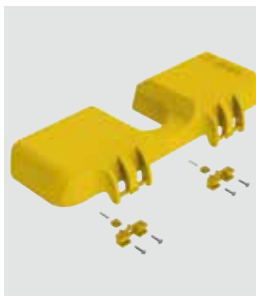
## Internal socket protection



Article	Description
VE GG2BA5A	Yellow socket protection

Protection complete with 2 screws for fixing under the socket.

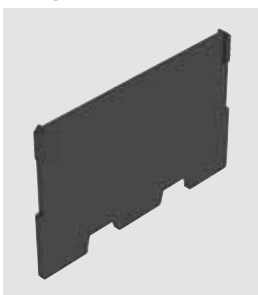
## Cover protection



Article	Description
VE GG2CA5A	Yellow cover protection
VE GG2CB5A	Yellow cover protection (IP65)
VE GG2CA1A	Black cover protection (on request)

Hinges and fixing screws kit, only for control stations EL AC•••••.

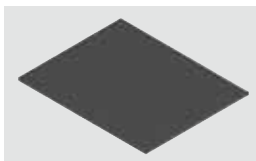
## Separator



Article	Description
VE GG2DA1	Separator

Separator applicable in different positions, to be used to separate those parts of the control stations having different voltage. Only for control stations EL AN•••••.

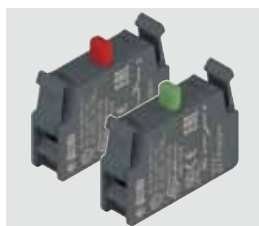
## Magnetic bases



Adhesive magnetic bases in plastoferrite to be applied on the bottom of the control stations EL AC••••• and EL AN••••• allowing to anchor them to metal surfaces.

Article	Description
VE BM2B46X70	46x70 mm for EL AN boxes
VE BM2B87X70	87x70 mm for EL AN boxes
VE BM2B120X70	120x70 mm for EL AN boxes
VE BM2B153X70	153x70 mm for EL AN boxes
VE BM2B240X70	240x70 mm for EL AC boxes

## Contact blocks



Article	Contacts
E2 CP01G2V1	Slow action 1NC ⊕
E2 CP10G2V1	Slow action 1NO
E2 CP01K2V1	Lagging slow action 1NC ⊕
E2 CP10L2V1	Leading slow action 1NO

### General data

Protection degree:	IP20 according to IEC 60529
Ambient temperature:	-40°C ... +80°C
Mechanical endurance:	20 million operations cycles
Max operating frequency:	3600 operations cycles/hour
Contacts material:	silver contacts
Contacts form:	"V shape" self-cleaning contacts with quadruple contact points
Screw terminal driving torque:	0.6 ... 0.8 Nm

## Contact blocks



Article	Contacts
E2 CP01S2V1	slow self-monitored action 1NC ⊕

### General data

Protection degree:	IP20 according to IEC 60529
Ambient temperature:	-40°C ... +80°C
Mechanical endurance:	20 million operations cycles
Max operating frequency:	3600 operations cycles/hour
Contacts material:	silver contacts
Contacts form:	"V shape" self-cleaning contacts with quadruple contact points
Screw terminal driving torque:	0.6 ... 0.8 Nm

## Contact blocks



Article	Contacts
E2 CP11G2V1	Slow action 1NO+1NC ⊕
E2 CP20G2V1	Slow action 2NO
E2 CP02G2V1	Slow action 2NC ⊕

### General data

Protection degree:	IP20 according to IEC 60529
Ambient temperature:	-40°C ... +80°C
Mechanical endurance:	20 million operations cycles
Max operating frequency:	3600 operations cycles/hour
Contacts material:	silver contacts
Contacts form:	"V shape" self-cleaning contacts with quadruple contact points
Screw terminal driving torque:	0.6 ... 0.8 Nm

## LED holders



LED colour	Actuator colour	Operation voltage		
		12 ... 30 Vac/dc	120 Vac	230 Vac
white	white / yellow	E2 LP1A2V1	E2 LP3A2V1	E2 LP4A2V1
red	red	E2 LP1A3V1	E2 LP3A3V1	E2 LP4A3V1
green	green	E2 LP1A4V1	E2 LP3A4V1	E2 LP4A4V1
blue	blue	E2 LP1A6V1	E2 LP3A6V1	E2 LP4A6V1
orange	orange	E2 LP1A8V1	E2 LP3A8V1	E2 LP4A8V1

### General data

Protection degree:	IP20 according to IEC 60529
Ambient temperature:	-25°C ... +70°C
Endurance:	100.000 hours (at rated voltage and ambient temperature +25 °C)
Operation voltage:	12 ... 30 Vac/dc; 5 ... 15 mA
	102 ... 138 Vac; 10 ... 12 mA
	195 ... 264 Vac; 9 ... 10 mA
Screw terminal driving torque:	0.6 ... 0.8 Nm

## Fixing ring

20 pcs packs



Article	Description
VE GF121A	Polymer fixing ring
Article	Description
VE GF720A	Metal fixing ring

## Fixing tool



Article	Description
VE CH121A1	Polymer fixing tool for VE GF •••• fixing rings

## Fixing adapter

10 pcs packs



Article	Description
E2 1BAC11	Fixing adapter with 3 positions for E2 CP contact block and E2 LP LED holder





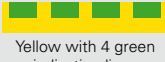

Article	Description
E2 1BAC21	Fixing adapter with 4 positions for E2 CP contact block
Can be exclusively combined with selectors E2 1SE••••••••, key selectors E2 1SC••••••••, pushbuttons E2 1PU••••••••, double pushbuttons E2 1PD••••••••, emergency pushbuttons E2 1PE••••••••, configured in the appropriate versions for adapters with 4 positions.	

Items with code on the **green** background are available in stock





## Emergency pushbuttons





Body colour and marking	Actuator colour and marking	Push-pull	Turn to release	Push-pull with mechanical indicator	Turn to release with mechanical indicator	Release with key Key number PY333
 Yellow	 red	E2 1PEPZ4531	E2 1PERZ4531	E2 1PEPF4531	E2 1PERF4531	E2 1PEBZ4531
 Yellow with 4 green indicating lines	 red	E2 1PEPZ4731	E2 1PERZ4731	E2 1PEPF4731	E2 1PERF4731	E2 1PEBZ4731

## Selectors





Actuator colour and marking	Position	2 positions Black ring
 black		E2 1SE12AVA11AB

Actuator colour and marking	Position	3 positions Black ring
 black		E2 1SE13ACE11AB

## Key selectors



Actuator colour and marking	Position	2 positions Black ring
 black		E2 1SC2AVA11AA

## Legend



Stay-put






Spring-return














Key withdrawal position

## Illuminated disc







colour and marking	Article	Description
	VE DL1A5A00	Yellow illuminated disc, Ø 60 mm, 24 Vac/dc, no marking
	VE DL1A5A09	Yellow illuminated disc, Ø 60 mm, 24 Vac/dc, with marking: STOP  STOP  STOP  STOP 
	VE DL1A5A13	Yellow illuminated disc, Ø 60 mm, 24 Vac/dc, with marking:    

## Blinking illuminated disc

colour and marking	Article	Description
	VE DL1A5L00	Yellow illuminated disc, blinking (0.5s on 0.5s off), Ø 60 mm, 24 Vac/dc, no marking
	VE DL1A5L09	Yellow illuminated disc, blinking (0.5s on 0.5s off), Ø 60 mm, 24 Vac/dc, with marking: STOP  STOP  STOP  STOP 
	VE DL1A5L13	Yellow illuminated disc, blinking (0.5s on 0.5s off), Ø 60 mm, 24 Vac/dc, with marking:    

## Cam switches



Contacts								Position	Article
1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16		
NC	NO	NC	NO	-	-	-	-		EH B2A22A-P01
NO	NO	NC	NC	NC	NC	-	-		EH B2A24A-P01
NC	NO	NC	NO	NC	NO				EH B2A33A-P01
NO	NC	NO	NC	NO	NC	NC	NC		EH B2A35A-P01
NC	NO	NC	NO	NC	NO	NC	NO		EH B2A44A-P01
NC	NO	NC	NO	NC	NO	NC	NO		EH B3A44A-P01

Supplied with fixing screw and knob.

Please note: only compatible with dedicated box covers.

For further information please contact the sales dept.

## General data

Protection degree according to IEC 60529: IP65 only if installed

on appropriate cover

IP20 on the terminals

Ambient temperature:

-25°C +55°C

Mechanical endurance:

1.5 million operation cycles at  
120 operation cycles/hour

Contacts material:

silver contacts

Screw terminal driving torque:

0.6 ... 0.8 Nm

Thermal current (I<sub>th</sub>):

16 A

Rated insulation voltage (U<sub>i</sub>):

660 Vac

Rated impulse withstand voltage (U<sub>imp</sub>):

4 kV

Rated operation current I<sub>e</sub>: alternate current

Vac	AC-21A AC-22A (A)		AC23A (A-kW)		AC-3 (A-kW)	
			1PH	3PH	1PH	3PH
110	/		14 - 1.5	/	12 - 1.1	/
230	/		14 - 3.1	13 - 4.2	12 - 2.5	10 - 3.1
400	16		/	13 - 7.5	/	10 - 5.1

## Double pushbuttons



Actuator colour and marking		Flush upper pushbutton Projecting central pushbutton Flush lower pushbutton	
		Function	Black ring
	“→” black pushbutton	DOWN	E2 1PDRL1AABS
	white indicator light		
	“←” white pushbutton	UP	
	“→” white pushbutton	UP	E2 1PDRL1AABN
	white indicator light		
	“←” black pushbutton	DOWN	
	“→” yellow pushbutton	ALARM	E2 1PDRL1AADJ
	white indicator light		
	“←” blue pushbutton	ENABLE	
	“→” black pushbutton	LIGHT	E2 1PDRL1AABR
	white indicator light		
	“←” yellow pushbutton	ALARM	
	“→” black pushbutton	LIGHT	E2 1PDRL1AADL
	white indicator light		
	“←” blue pushbutton	ENABLE	

## Triple pushbuttons



Actuator colour and marking		Flush upper pushbutton Projecting central pushbutton Flush lower pushbutton	
		Function	Black ring
	“→” black pushbutton	LIGHT	E2 1PTRS1AADK
	“←” yellow pushbutton	ALARM	
	“↕” blue pushbutton	ENABLE	
	“→” black pushbutton	DOWN	E2 1PTRS1AABK
	“←” yellow pushbutton	ALARM	
	“↕” white pushbutton	UP	

## Flush and mushroom pushbutton



Actuator colour and marking	Function	Flush Pushbuttons	Flush Ø 36 mm mushroom pushbuttons
		Black ring	Black ring
 white	UP	E2 1PU2R221L7	/
 black	DOWN	E2 1PU2R121L8	/
 black	LIGHT	E2 1PU2R121L16	E2 1PU2F141L16
 yellow	LIGHT	/	E2 1PL2F541L16
 yellow	ALARM	E2 1PU2R521L14	E2 1PU2F541L14
 blue	ENABLE	E2 1PU2R621L170	

## Quadruple pushbuttons



Actuator colour and marking (starting from the top and clockwise)		flush upper pushbutton flush right pushbutton flush lower pushbutton flush left pushbutton	
		Function	black ring
	“↑” white pushbutton	UP	E2 1PQFA1QAAQ
	“↗” black pushbutton	LIGHT	
	“↓” black pushbutton	DOWN	
	“↖” yellow pushbutton	ALARM	
	“↑” white pushbutton	UP	E2 1PQFA1QAAS
	“↗” black pushbutton	LIGHT	
	“↓” black pushbutton	DOWN	
	“↖” blue pushbutton	ENABLE	
	“↑” white pushbutton	UP	E2 1PQFA1QAAR
	“↗” yellow pushbutton	ALARM	
	“↓” black pushbutton	DOWN	
	“↖” blue pushbutton	ENABLE	

Items with code on the **green** background are available in stock

**Monolithic illuminated indicator****10 pcs packs**

LED colour	Operation voltage		
	12 ... 30 Vac/dc	120 Vac	230 Vac
white	E6 1IL1A2110	E6 1IL7A2110	E6 1IL8A2110
red	E6 1IL1A3110	E6 1IL7A3110	E6 1IL8A3110
green	E6 1IL1A4110	E6 1IL7A4110	E6 1IL8A4110
yellow	E6 1IL1A5110	E6 1IL7A5110	E6 1IL8A5110
blue	E6 1IL1A6110	E6 1IL7A6110	E6 1IL8A6110
orange	E6 1IL1A8110	E6 1IL7A8110	E6 1IL8A8110

**DIN rail adapter****10 pcs packs**

Article	Description
VE AD3PF9A0	Adapter with Ø22 hole for front fixing on DIN rail of control and signalling devices EROUND series.

Not suitable for cam switches and quadruple pushbuttons

**USB socket**

Back connection	Front connection USB 2.0 Type A integrated female socket black ring	
USB Type A integrated female socket	E2 1USB1CAK	/
outlet with cable in PVC (1.8 m long) and USB Type A male socket	/	E2 1USB1CN1.8
outlet with cable in PVC (3 m long) and USB Type A male connector	/	E2 1USB1CN3
outlet with cable in PVC (5 m long) and USB Type A male connector	/	E2 1USB1CN5

**RJ45 socket**

Back connection	Front connection RJ45 integrated female socket black ring	
RJ45 integrated female socket	E2 1RJ451AAK	/
Output with cable in PVC (1 m long) and RJ45 male connector	/	E2 1RJ451AN1
Output with cable in PVC (2.5 m long) and RJ45 male connector	/	E2 1RJ451AN2.5

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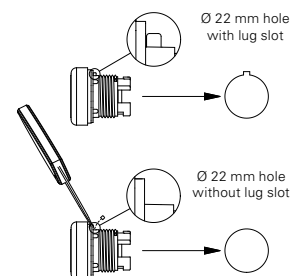
Items with code on the **green** background are available in stock

## Alignment lug

The alignment lug in the external diameter of the EROUND series devices allows to obtain an exact alignment of the device while installing it on the panel avoiding any rotation.

If the application hole does not have the lug slot, it is sufficient to remove the lug by levering it with a screwdriver and paying attention not to damage the gasket.

It is not advisable to remove the alignment lug for turn to release selector (E2 1SE, E2 1SL, E21SC series) and emergency pushbuttons (E2 1PE series) since these are devices with rotating actuation.

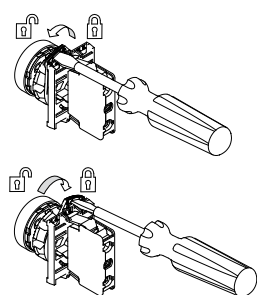


## Device connection to the fixing adapter

After having fixed the control device to the panel through its proper ring, connect it to the fixing adapter by turning the locking lever.

The lever has two indications: open position (open padlock) and locked position (close padlock).

The locking lever rotation is easier if using a slotted screwdriver.

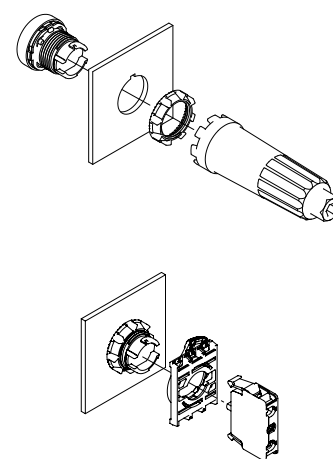


## Panel fixing

The signalling and control devices have to be fixed behind the panel through a ring which has to be screwed with the fixing tool provided as accessory.

The driving torque for a correct fixing has to be between 2 and 2,5 Nm.

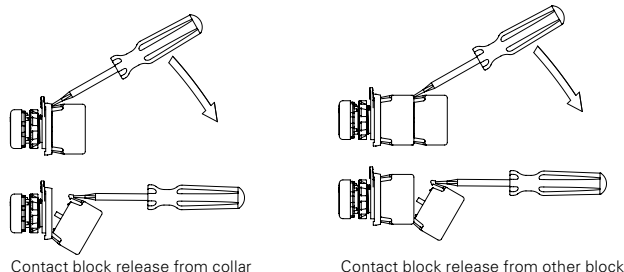
After fixing the ring it is possible to apply the fixing adapter and the panel contact block or LED holder.



## Contact and LED holders hooking

Each contact and LED holders have two snap tabs which assure a stable fixing to the adapter, for panel mount versions, or to the enclosure for base fixing versions. Panel contact blocks can be hooked between them, up to a maximum of three, provided that the limits for every actuator are respected as written in the relative chapters.

Contact and LED holders are quickly removed by levering with a slotted screwdriver on the snap tabs.



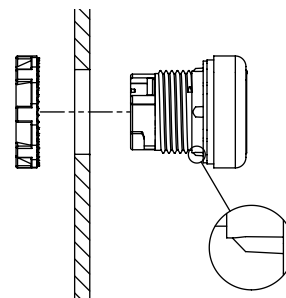
Contact block release from collar

Contact block release from other block

## Gasket

Thanks to its configuration, the gasket assures a prefixing on the panel.

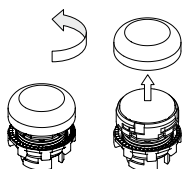
This way the ring nut can be applied with no need of keeping in position the device.



## Lenses for indicator lights E2

The E2 indicator lights are provided with lenses of different colours which are interchangeable. The lenses can be fixed and removed by simply turning them clockwise and anticlockwise without needing any tool.

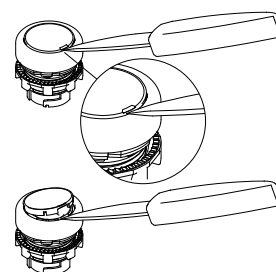
For a good chromatic output, it is necessary a correct combination of lens and LED holder colours.



## Lenses for illuminated pushbuttons

Pushbuttons and illuminated pushbuttons can have interchangeable lenses too.

Their lens can be removed by putting a pointed tool under the notch on the lens external diameter and levering it.



## General prescription

The product is designed to be installed into electrical board or enclosures destined to contain electric circuits. All EROUND series components and electrical devices destined to be installed inside boards or enclosures, (e.g. E2 CP, E2 CF, E2 LP, E2 LF), do not have adequate protection against: water, dust in high quantity, condensate, humidity, steam, corrosive agents, explosive and inflammable gas or other polluting agents. The boards and enclosures protection degree have to guarantee the necessary protection for the EROUND series electrical components installed inside, as according to the application.

## Impacts and vibrations

- Avoid collisions with devices. Excessive impacts and vibrations could not guarantee the correct working of the device.



## Devices utilization

- All devices of the EROUND series are projected for manual operation.
- Do not apply excessive force to the device once it has reached the end of its actuating travel.
- Do not pass the actuating maximum travel.
- Do not disassemble or try to repair the device, in case of defect or fault replace the whole device.
- In case the device is deformed or damaged replace it completely. There is no guarantee of working for a deformed or damage device.
- Always attached the following instructions for use in the manual of the machine where the switch is installed.
- The preservation of the following instructions for use has to allow their consultation for the whole utilization period of the device.

## Wiring and installation

- The installation has to be made by qualified personnel.
- Comply with minimum distances between devices.
- Comply with the driving torque.
- Keep the electrical load beneath the value indicated on the utilization category.
- Turn off the power before access to the contacts, also during the wiring.
- Do not paint or varnish the devices.
- It is possible to install the product only on surfaces with thickness between 1 and 6mm.
- The protection degree and its correct working are guaranteed only installing the product on flat and smooth surfaces with holes diameter 22 mm according to IEC 60947-5-1.
- After and during the wiring do not pull the electrical cables connected to the contact block. If an elevate traction force is applied to the cables the contact blocks could be separated from the actuator.
- During hooking and release operation of the contact block and the fixing adapter or the enclosure base do not deform or stress the fixing tabs. Tabs deformation could cause the separations between the contact block and the fixing adapter.
- After the installation and before machine working, verify:
  - the correct device working;
  - the correct and complete locking of the E2 1BAC•1 fixing adapter to the device;
  - the correct hooking of the contact block.
- Periodically verify the devices correct working.

## Do not use in the following environments:

- Environment where dust and dirt can cover the device and by sedimenting stop its correct working.
- Environment where sudden changes of temperature cause condensation.
- Environment where ice formation on the device is possible.
- Environment where the application causes knocks or vibrations which can damage the device.
- Environment with explosive and inflammable gas presence.

## Utilization limits

- Use the devices following the instructions, complying with their working limits and the standards in force.
- The devices have specific application limits (min. and max ambient temperature, mechanical endurance, protection degree, etc.). These limits are satisfied by the different devices only if singularly taken and not in combination among them. For further information contact our Technical department.
- The utilization implies compliance and acknowledgement of the following standards: IEC 60204-1, IEC 60947-5-1, ISO 12100-1, ISO12100-2.
- Contact our Technical dept. for information and assistance (phone +39.0424.470.930 / fax +39.0424.470.955/ e-mail tech@pizzato.com) in the following cases:
  - Cases not mentioned on the following instructions;
  - In nuclear power stations, trains, airplanes, cars, incinerators, medical devices or any application where the safety of two or more persons depend on the correct device working.

## Additional prescription for safety application

Provided that all previous requirements for the devices installed for safety application are fulfilled, further additional prescriptions have to be observed:

- The utilization in any case implies compliance and acknowledgement of the following standards: IEC 60204-1, IEC 60947-5-1, EN 60954-1, EN 13849, EN ISO 13850, ISO 12100-1, ISO12100-2
- In the emergency mushroom the safety circuit has to be connected to NC 1-2 contacts when the device is not actuated. Auxiliary NO 3-4 contacts have to be used only in the signalling circuit.
- Always connect in series the protection fuse (or equivalent device) to the NC 1-2 contacts of the safety circuit.
- Periodically verify the correct working of the safety devices, the periodicity of this verification is settled by the machine manufacturer based on the machine danger degree and it doesn't have to be less than one a year.
- After the installation and before machine working, verify:
  - the correct device working;
  - the correct and complete locking of the E2 1BAC•1 fixing adapter to the device;
  - the correct hooking of the contact block.
- Do not leave the key inserted in the emergency mushroom with key-release. A sudden actuation of the emergency mushroom with the key inserted could hurt the operator.