

Changeover switches and selector switches



In the EL AN series control stations, a cam switch can be installed instead of a selector switch on request.

The cam switches have a wide, ergonomic actuation knob, are available in versions with 2 or 3 stable positions, and can be internally wired to customer specifications, up to a maximum of 4 contacts.

The cover shapes designed to accommodate the switches provide a suitable enclosure with protection guard.

Equipped with a gasket below the knob, the switch achieves a protection degree of IP67.

Introduction

The experience and knowledge acquired in decades of activity in the field of safety and automation enables Pizzato Elettrica to offer innovative solutions in other areas as well, combining maximum functionality and flexibility of use with clear lines and attention to detail.

The EL AN series control stations are equipped with Pizzato Elettrica EROUND signalling and control devices.

The EL AN series lift control stations are designed for motion control of elevators during inspection and maintenance.

In compliance with standards EN 81-20 and EN 81-50

International standards EN 81-20 and EN 81-50 set new, updated, technical and safety requirements in comparison to current standards. They are a significant development in terms of lift construction and installation.

The EL range of signalling and control stations is designed to meet all of the requirements included in these standards, to ensure that products are fully compliant.

Modularity

The number, type and location of holes made in the control stations to accommodate devices can be freely selected by the customer: The number of possible variants is very high.

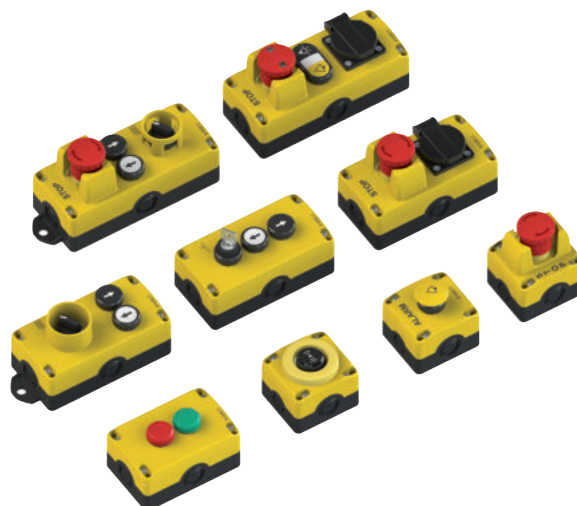
This wide range of options is made possible by an innovative mould, made up of modular and interchangeable elements (patent pending). It allows free positioning of the various hole patterns and shapes required to accommodate devices. This modular mould allows the entire cover to be produced as a single solid piece in a single casting process.



Wide range

The range of available EL AN series control stations includes 4 different dimensions, and multiple configurations.

The shape of the new EL AN control stations has been designed with particular attention to detail; creating a pleasing aesthetic result.



Treadproof

The EL AN series of control stations – thanks to their specific design, and the choice of materials used – are particularly resistant, and able to withstand impacts and loads.

They are therefore suitable for use in heavy-duty applications.



Custom wiring

The control stations can be supplied wired, with the wiring implemented according to customer specifications; both in terms of cables used, and connectors.

This additional adaptation to customer requirements means that the control stations are supplied ready for final installation.

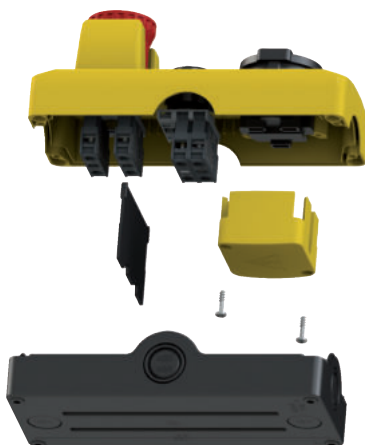


Electrical socket

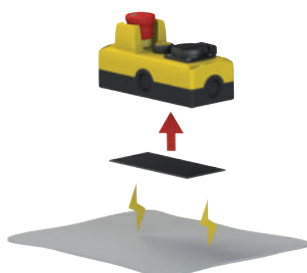
The interior parts of the socket are protected against accidental contact by a removable cover.

A separator plate is available (which can be installed in various positions), which is used to separate control station parts with different voltages.

The electrical socket is also always installed on the top of the control station, and never on its side; this makes it easier to use, and its position easier to see. It is available in various versions to comply with different country-specific regulations.



Magnetic bases



All EL AN series control stations can be supplied with a magnetic base, installed at the bottom of the housing; this allows the control stations to be anchored to walls and metallic surfaces, in such a way that they are removable, and no drilling is required.

The adhesive magnetic bases can also be retrofitted.

Padlockable protection for bypass device

Paragraph 5.12.1.8 of UN i.e. EN 81-20:2014 stipulates use of a bypass device, to allow maintenance of the contacts of landing and cabin doors, and of door locking devices. This device must be placed in the control or emergency panel, and must be a switch protected against unintended use through the use of mechanically mobile means.

The Pizzato bypass device provides a solid guard with a movable cover, which, if needed, can be locked in a closed position by inserting one or two padlocks, or sealed.

To facilitate operations, the cover also has two shutter-release positions: fully open and fully closed.

The cover therefore will not open inadvertently, but it must in any case be manually disconnected.

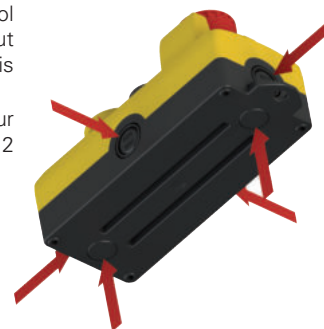
The lockable Pizzato guard can be installed on EL series control stations or on any electrical panel that has the appropriate holes for the fixing screws, as shown.



Conduit entries

The base of the EL AN control station has several knock-out entries for cable routing. This ensures easy wiring.

The control stations have four entries at the sides, and 2 entries on the bottom.



LASER engraving



Pizzato Elettrica has introduced a new LASER engraving system for EL AN series control stations.

Thanks to this new system, which does not use pad printing or labels, engravings on the products are indelible and durable over time.

The laser engravings of the EL AN series control stations now include pictograms and icons compliant with the new EN 81-20 standard; the control stations can also be customised using indicators, symbols, and logos, on customer request.

Visual and audible signals

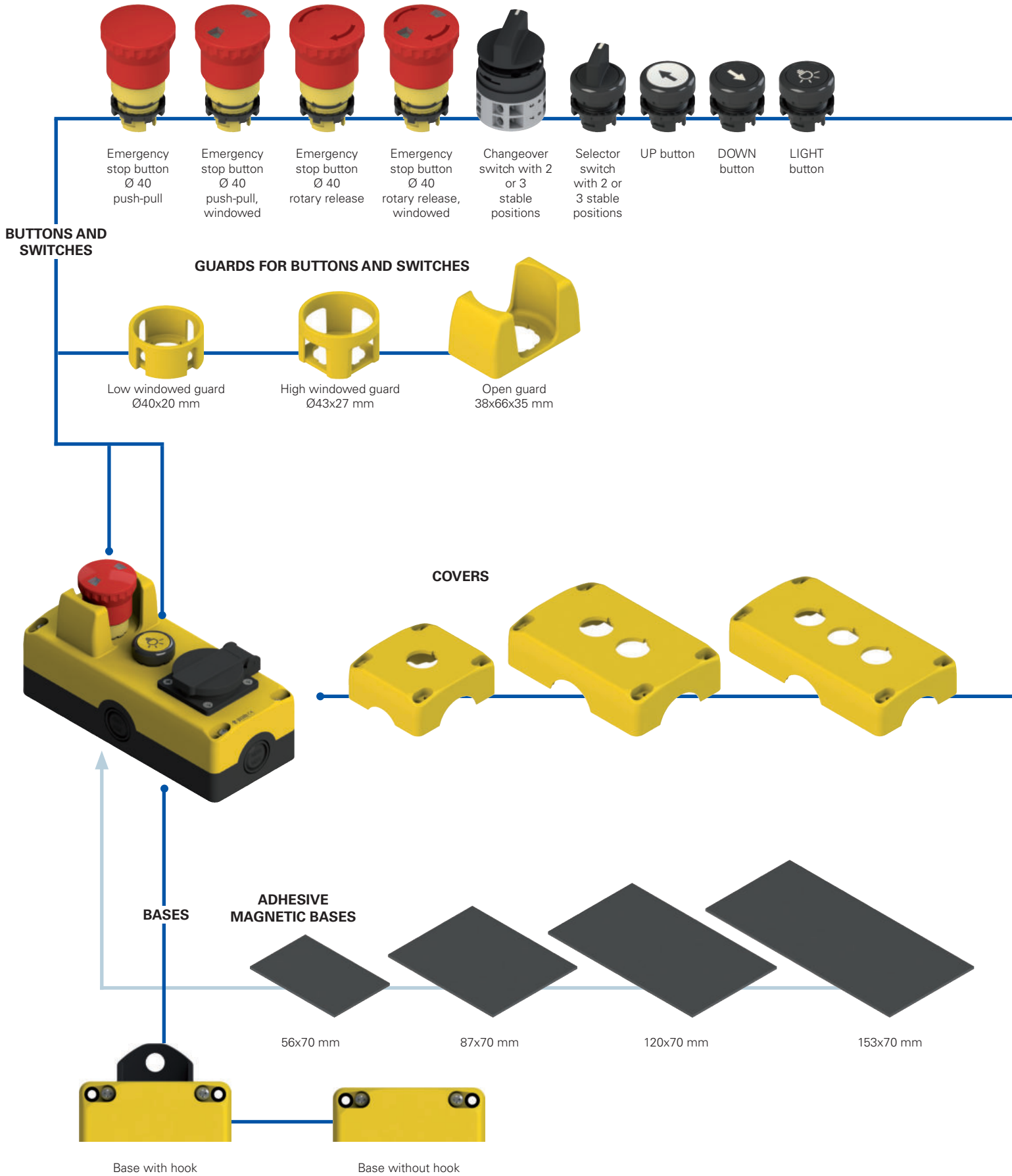
All devices required for compliance with the provisions of standard

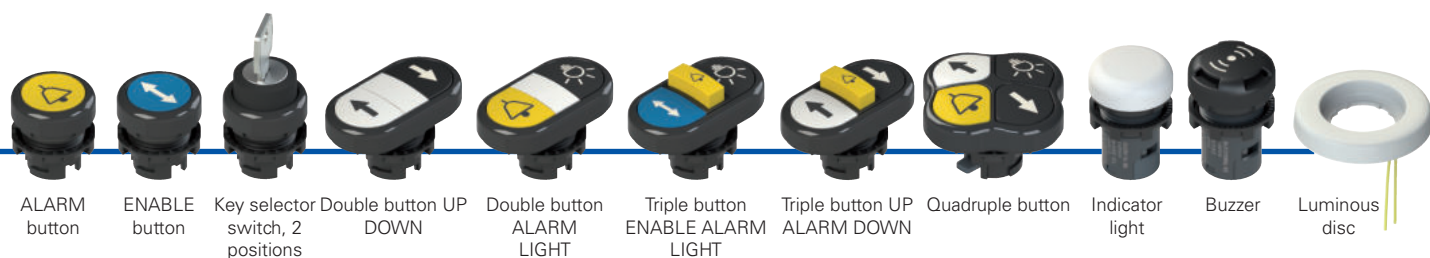
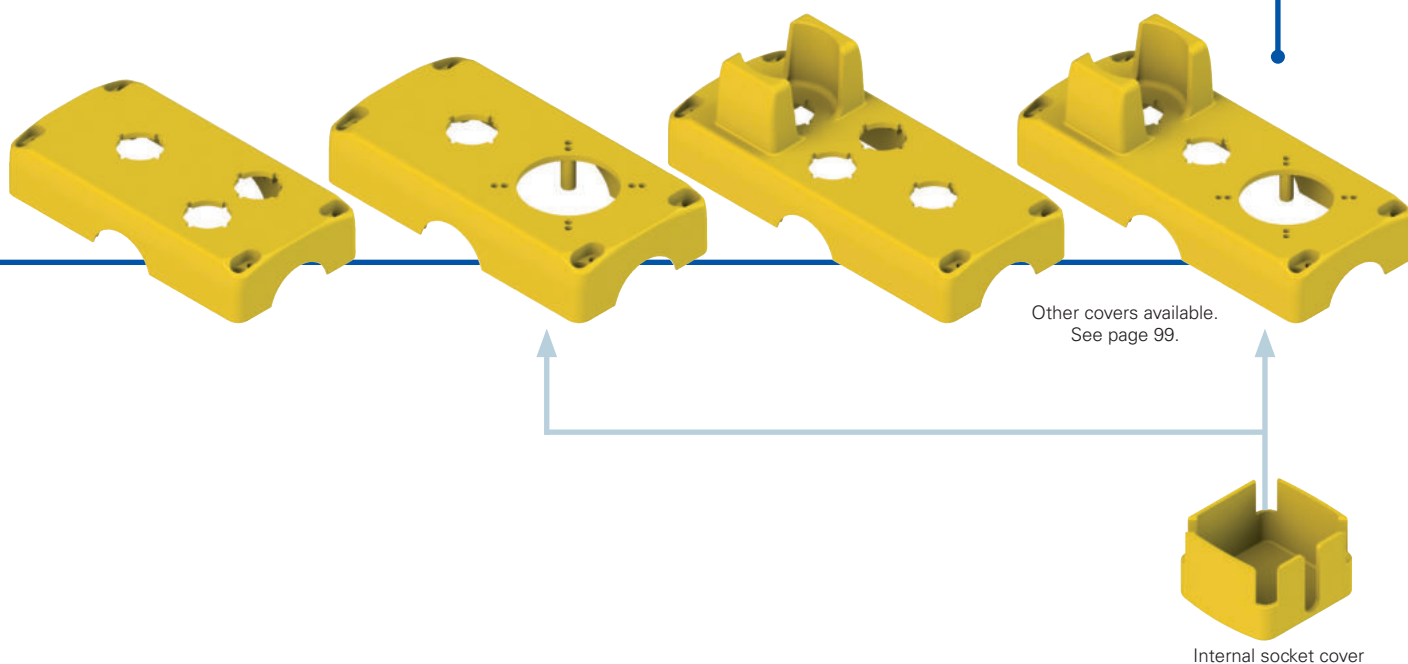
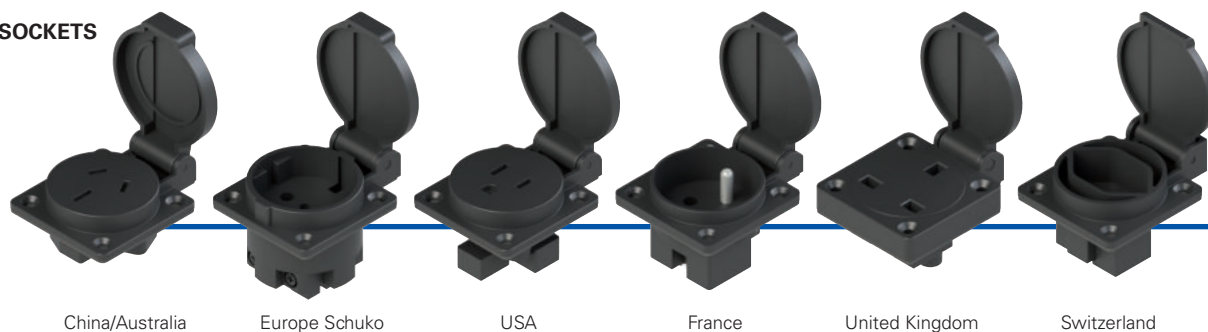
EN 81-20, in terms of visual and audible signals inside the lift shaft, are available.

All EL series control and signalling stations can therefore be equipped with white lights, with an intensity of 5 LUX at a distance of 1 metre; flashing yellow lights, and buzzers with continuous or pulsed tone, with a minimum sound intensity of 55 dB at a distance of 1 metre.



Selection diagram




SOCKETS


product options
 sold separately as accessory

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

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

Incremental configuration number	
000	configuration 000
001	configuration 001
...	...



Main features

- Various configurations available
- Protection degree up to IP69K
- Guards for buttons and switches
- Internal and external fixing
- Customisable electrical socket
- Captive screws

Housing quality marks:



EAC approval: RU C-IT.A.135.B.00454

Contact block quality marks:



IMQ approval: CA02.04805
 UL approval: E131787
 CCC approval: 2013010305631156
 EAC approval: RU C-IT.A.135.B.00454

Technical data

Housing

Shockproof, self-extinguishing technopolymer cover. UV resistant and double insulated

Single element housing:

2 lateral knock-out entries: M20 - M25 - PG13.5 - 1/2 NPT
 2 lateral knock-out entries: M20 - PG13.5 - 1/2 NPT
 2 knock-out entries at bottom: M16 - PG11

Housing with 2 or more elements:

4 lateral knock-out entries: M20 - M25 - PG 13.5 - 1/2 NPT
 2 knock-out entries at bottom: M20 - PG 13.5 - 1/2 NPT

Base colour:

Black RAL 9005

Cover colour:

Yellow RAL 1023

Material of the screws:

Zinc-plated steel;
 stainless steel available on request

Protection degree acc. to EN 60529:

IP54 (standard)

IP65 (on request)

IP67 (on request)

Protection degree acc. to ISO 20653:

IP69K (on request)

with cable gland of equal or higher protection degree

General data

Ambient temperature: -25°C ... +80°C

Cover screw tightening torque: 1 ... 1.4 Nm

In compliance with standards:

IEC 60947-5-1, EN 60947-5-1, IEC 60947-5-5, EN 60947-5-5, EN 60947-1, IEC 60204-1, EN 60204-1, EN ISO 14119, IEC 60529, EN 60529, EN IEC 63000, EN 81-20, EN 81-50, UL 508, CSA 22.2 No.14

⚠ Installation for safety applications:

Use only contact blocks marked with the symbol Always connect the safety circuit to the NC contacts (normally closed contacts: 1-2) as stated in standard EN 81-20 par. 5.11.2.2.1.

Compliance with the requirements of:

Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU,
 Lift Directive 2014/33/EU, RoHS Directive 2011/65/EU.

Positive contact opening in conformity with standards:

IEC 60947-5-1, EN 60947-5-1.

⚠ If not expressly indicated in this chapter, for correct installation and utilization of all articles see the instructions given on page 119.

Electrical data

Thermal current (I_{th}): 10 A
 Rated insulation voltage (U_i): 500 Vac/dc
 Protection against short circuits: type gG/gL fuse 10 A 500 V
 Rated impulse withstand voltage (U_{imp}): 8 kV
 Pollution degree: 3

Utilization category

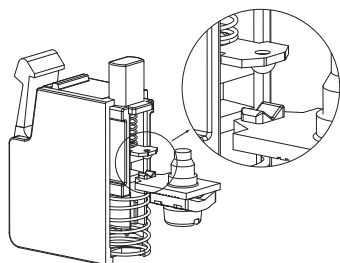
Alternating current: AC15 (50 ... 60 Hz)

U_e (V)	24	48	120	250	400
I_e (A)	6	6	6	6	3

 Direct current: DC13

U_e (V)	24	48	125	250
I_e (A)	2.5	1.3	0.6	0.3

High-reliability self-cleaning contacts



"V-shape" self-cleaning contacts with quadruple support point. This type of shape, thanks to the presence of the double support point, makes it possible to drastically reduce the probability of contact commutation failure. In addition to this, it improves considerably the reliability in the presence of dust (patent pending).

Positive opening

NC contact block suitable for safety applications, with positive opening contacts in accordance with IEC 60947-5-1.

Features approved by UL

Electrical Ratings: A600 pilot duty (720 VA, 120-600 V ac)
 Q300 pilot duty (69 VA, 125-250 V dc)

For contact block series E2 C provided with clamping screw terminals: use 60 or 75 °C copper (Cu) conductor and wire size range 14-20 AWG, stranded or solid. The terminal tightening torque of 7.1 Lb In (0.8 Nm).




For contact block series E2 C provided with screw less type terminals: use 60 or 75 °C copper (Cu) conductor and wire size range 16-24 AWG, stranded. These terminals are suitable also for stranded conductors prepared with ZMLF ferrules. Recommended stripping length: 8 mm.




Features approved by IMQ




Rated insulation voltage (U_i): 500 V
 Conventional free air thermal current (I_{th}): 10 A
 Thermal current inside housing (I_{the}): 10 A
 Rated impulse withstand voltage (U_{imp}): 8 kV
 Protection degree of the housing: IP20
 Terminals: screw terminals
 Utilization category: AC15






Operating voltage (U_o): 400 Vac (50/60 Hz)
 Operating current (I_o): 3 A
 Forms of the contact element: X, Y
 Positive opening of contacts on contact blocks 01G, 01K
 In compliance with standards: EN 60947-1, EN 60947-5-1, fundamental requirements of the Low Voltage Directive 2014/35/EU.






EL AN21223	DEVICES	CONTACTS	DIAGRAM
		Emergency stop button Ø 40 windowed push-pull release, with guard	1NC 
EL AN21224	DEVICES	CONTACTS	DIAGRAM
		Emergency stop button Ø 40 rotary release, with guard	1NC 
EL AN21256	DEVICES	CONTACTS	DIAGRAM
		Emergency stop button Ø 40 push-pull release, with guard	1NC 
EL AN21257	DEVICES	CONTACTS	DIAGRAM
		Emergency stop button Ø 40 windowed rotary release, with guard	1NC 
EL AN21365	DEVICES	CONTACTS	DIAGRAM
		ALARM mushroom button Ø 36 spring-return, yellow	1NO 

EL AN21324	DEVICES	CONTACTS	DIAGRAM	
		LIGHT button flush, spring-return, black	1NO	

EL AN21369	DEVICES	CONTACTS	DIAGRAM	
		WHITE luminous disc 5 LUX steady white light	24 Vac/dc	
		Black closing cap	/	

EL AN21366	DEVICES	CONTACTS	DIAGRAM	
		Selector switch with short handle 2 stable positions, black, with lockable guard for bypass	1NO	NORMAL  BYPASS 





EL AN21367	DEVICES	CONTACTS	DIAGRAM	
		WHITE luminous disc 5 LUX steady white light	24 Vac/dc	
		ALARM mushroom button Ø 36 spring-return, yellow	1NO	

EL AN21348	DEVICES	CONTACTS	DIAGRAM	
		YELLOW luminous disc blinking yellow light	24 Vac/dc	
		Buzzer, continuous alarm perforated lens, black	24 Vac/dc	





EL AN22012



	DEVICES	CONTACTS	DIAGRAM
	Monolithic indicator light Ø 30 colour: red	Red LED 12 ... 30 Vac/ dc	
	Monolithic indicator light Ø 30 colour: green	Green LED 12 ... 30 Vac/ dc	





EL AN22036



	DEVICES	CONTACTS	DIAGRAM
	Schuko socket 16 A 250 Vac	/	





EL AN22049



	DEVICES	CONTACTS	DIAGRAM
	Buzzer, continuous alarm perforated lens, black	24 Vac/dc	
	Indicator light Ø 30 red, blinking	Red LED 12 ... 30 Vac/ dc	







EL AN22050



	DEVICES	CONTACTS	DIAGRAM
	Emergency stop button Ø 40 windowed rotary release	1NC	
	LIGHT button flush, spring-return, black	1NO	





EL AN23040



	DEVICES	CONTACTS	DIAGRAM
	Emergency stop button Ø 40 rotary release	1NC	
	UP button flush, spring-return, white	1NO	
	DOWN button flush, spring-return, black	1NO	





EL AN23072



	DEVICES	CONTACTS	DIAGRAM
	Emergency stop button Ø 40 windowed push-pull release	1NC	
	LIGHT button flush, spring-return, yellow	1NO	










EL AN23023



	DEVICES	CONTACTS	DIAGRAM
	Emergency stop button Ø 40 rotary release, with guard	1NC	
	Schuko socket 16 A 250 Vac with internal fuse	/	

EL AN23118



	DEVICES	CONTACTS	DIAGRAM				
	Emergency stop button Ø 40 windowed push-pull release, with guard	1NC					
	Selector switch with short handle 2 stable positions, black, with guard	1NO+1NC	<table border="0"> <tr> <td>NORMAL</td> <td></td> </tr> <tr> <td>INSPECTION</td> <td></td> </tr> </table>	NORMAL		INSPECTION	
NORMAL							
INSPECTION							
	UP button flush, spring-return, white	2NO					
	DOWN button flush, spring-return, black	2NO					



EL AN23052



	DEVICES	CONTACTS	DIAGRAM
	Selector switch with short handle 2 stable positions, black, with guard	2NO+2NC	NORMAL INSPECTION
	UP button flush, spring-return, white	1NO	
	DOWN button flush, spring-return, black	1NO	

EL AN23116



	DEVICES	CONTACTS	DIAGRAM
	Buzzer, continuous alarm perforated lens, black	24 Vac/dc	
	YELLOW luminous disc blinking yellow light	24 Vac/dc	
	ALARM button flush, spring-return, yellow	1NO	

EL AN23117

















	DEVICES	CONTACTS	DIAGRAM
	Buzzer, continuous alarm perforated lens, black	24 Vac/dc	
	Monolithic indicator light Ø 30 colour: red	Red LED 12 ... 30 Vac/ dc	
	ALARM button flush, spring-return, yellow	1NO	


EL AN23119













	DEVICES	CONTACTS	DIAGRAM
	WHITE luminous disc 5 LUX steady white light	24 Vac/dc	
	ALARM button flush, spring-return, yellow	1NO	
	Schuko socket 16 A 250 Vac with internal fuse	/	

EL AN24025		DEVICES	CONTACTS	DIAGRAM
		Emergency stop button Ø40 windowed push-pull release, with guard	1NC	
		Illuminated LIGHT button flush, spring-return, yellow	1NO White LED 12 ... 30 Vac/dc	
		Schuko socket 16 A 250 Vac with internal fuse	/	

EL AN24026		DEVICES	CONTACTS	DIAGRAM
		Emergency stop button Ø40 windowed push-pull release, with guard	1NC	
		ALARM button flush, spring-return, yellow	1NO	
		Schuko socket 16 A 250 Vac with internal fuse	/	

EL AN24028		DEVICES	CONTACTS	DIAGRAM
		Emergency stop button Ø40 windowed push-pull release, with guard	1NC	
		ALARM button flush, spring-return, yellow	1NO	
		LIGHT button flush, spring-return, black	1NO	
		Schuko socket 16 A 250 Vac with internal fuse	/	

EL AN24111		DEVICES	CONTACTS	DIAGRAM
		Emergency stop button Ø 40 rotary release, with guard	1NC	
		UP button flush, spring-return, white	2NO	
		DOWN button flush, spring-return, black	2NO	
		Selector switch with short handle 2 stable positions, black, with guard	2NO+2NC	NORMAL  INSPECTION 

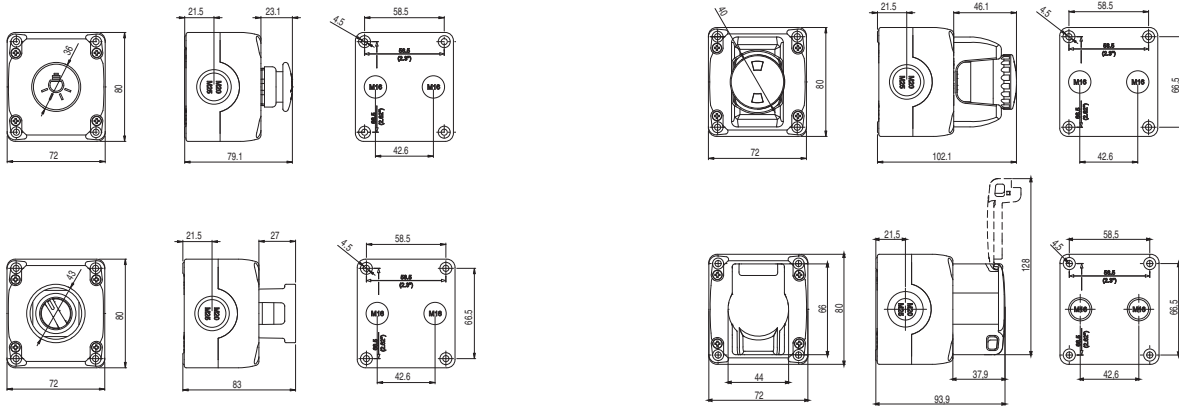
EL AN24201		DEVICES	CONTACTS	DIAGRAM
		Emergency stop button Ø 40 push-pull release, with guard	1NC	
		UP button flush, spring-return, white	2NO	
		DOWN button flush, spring-return, black	2NO	
		Changeover switch Ø 42 2 stable positions, black, with guard	2NO+2NC	NORMAL INSPECTION

EL AN24202		DEVICES	CONTACTS	DIAGRAM
		Emergency stop button Ø 40 push-pull release, with guard	1NC	
		UP button flush, spring-return, white	2NO	
		DOWN button flush, spring-return, black	2NO	
		Selector switch with short handle 2 stable positions, black, with guard	2NO+3NC	NORMAL INSPECTION
		ENABLE button flush, spring-return, blue	1NO	

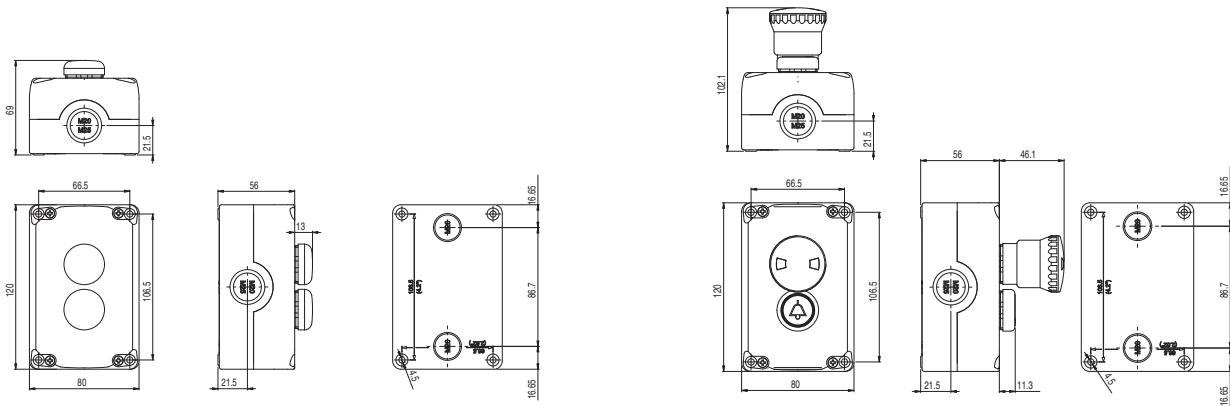
EL AN24203		DEVICES	CONTACTS	DIAGRAM
		Selector switch with short handle 2 stable positions, black	1NO+1NC	0 1
		Selector switch with short handle 2 stable positions, red	1NO+1NC	0 1
		Monolithic indicator light Ø 30 colour: green	Green LED 12 ... 30 Vac/ dc	
		UP button flush, spring-return, white	1NO	
		DOWN button flush, spring-return, black	1NO	

EL AN24204		DEVICES	CONTACTS	DIAGRAM
		WHITE luminous disc 5 LUX steady white light	24 Vac/dc	
		Buzzer, continuous alarm perforated lens, black	24 Vac/dc	
		Monolithic indicator light Ø 30 colour: red	Red LED 12 ... 30 Vac/ dc	
		Monolithic indicator light Ø 30 colour: green	Green LED 12 ... 30 Vac/ dc	
		Schuko socket 16 A 250 Vac with internal fuse	/	

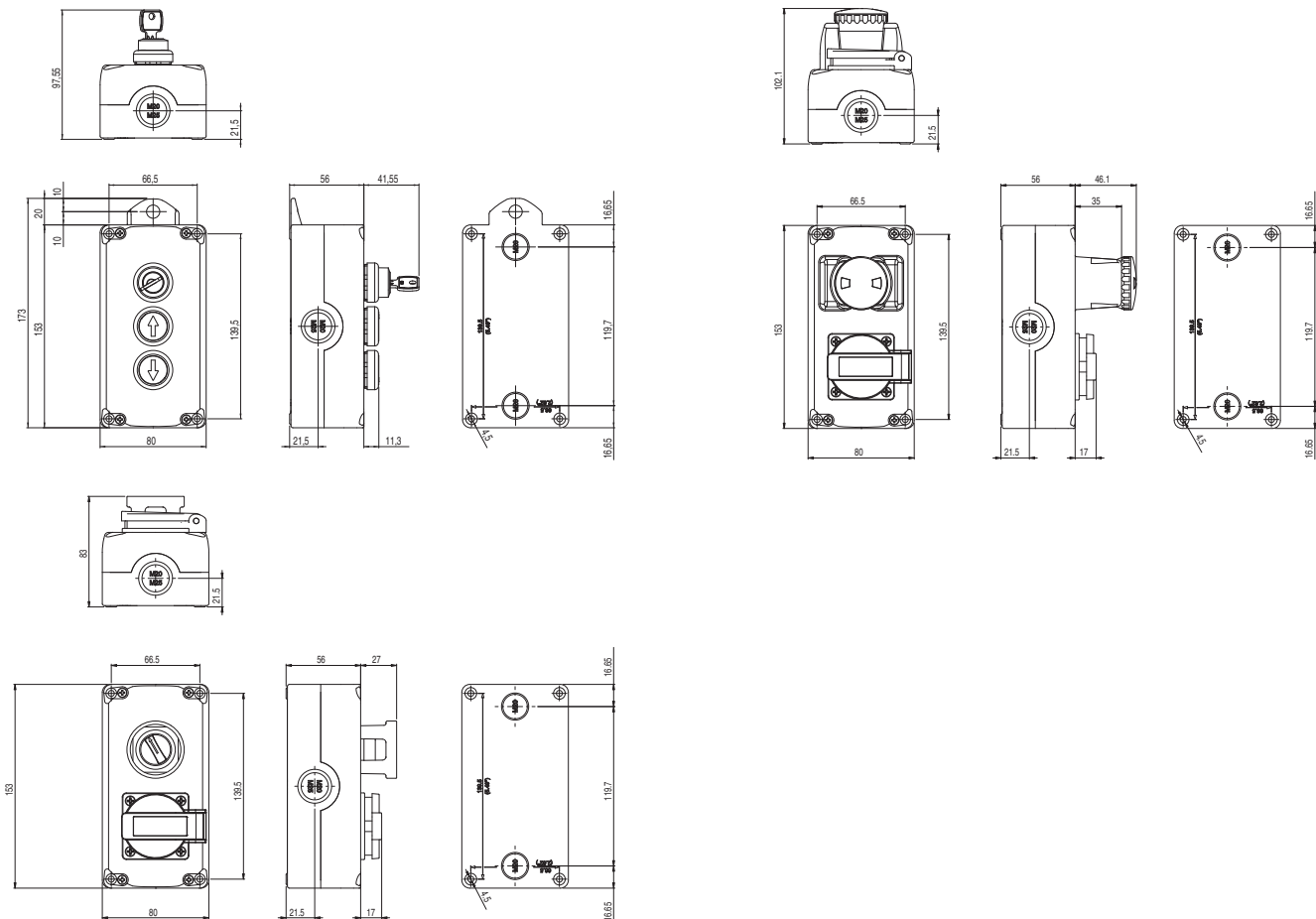
Housing dimensions for EL AN 21... series lift control stations



Housing dimensions for EL AN 22... series lift control stations



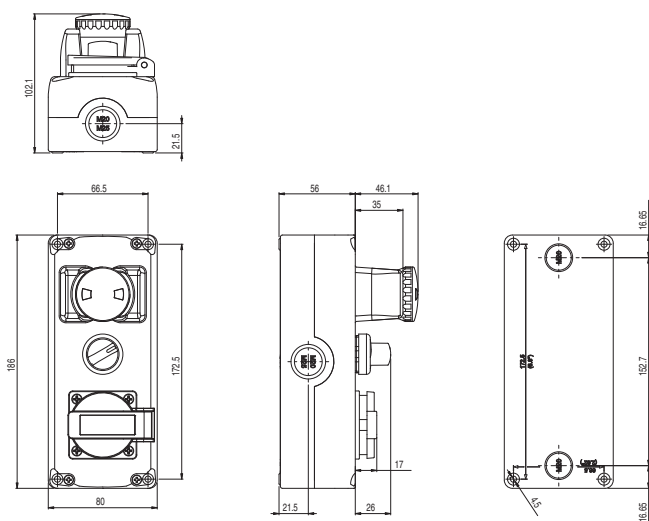
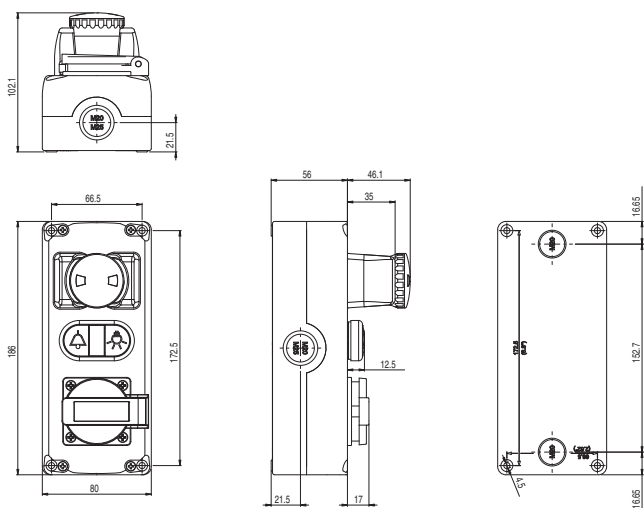
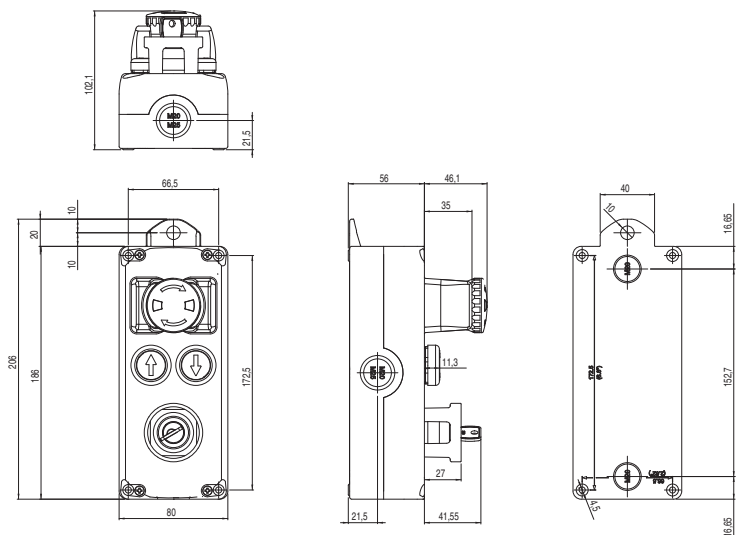
Housing dimensions for EL AN 23... series lift control stations



All values in the drawings are in mm

→ The 2D and 3D files are available at www.pizzato.com

Housing dimensions for EL AN 24... series lift control stations





All values in the drawings are in mm

→ The 2D and 3D files are available at www.pizzato.com



EL AN 21••• series cover selection table

ATTENTION: The internal code does not designate a product. Covers are not available for sale separately

		
internal code	24151	24159






EL AN 22••• series cover selection table

ATTENTION: The internal code does not designate a product. Covers are not available for sale separately

		
internal code	24201	24210


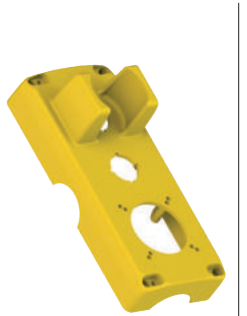
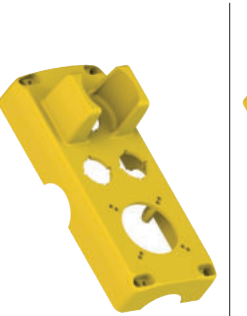
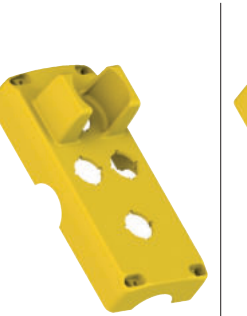

EL AN 23••• series cover selection table (selector versions)


ATTENTION: The internal code does not designate a product. Covers are not available for sale separately

					
internal code	24251	24258	24260	24262	24263

EL AN 24... series cover selection table (selector versions)

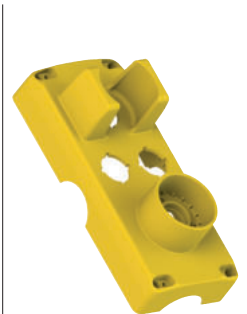
ATTENTION: The internal code does not designate a product. Covers are not available for sale separately

				
internal code 24301	24310	24313	24315	24316


internal code 24326

EL AN 24... series cover selection table (changeover switch versions)

ATTENTION: The internal code does not designate a product. Covers are not available for sale separately


internal code 24317