

### Introduction

With its experience and knowledge gained in decades of activity in the field of automation and safety, Pizzato Elettrica confirms its ability to propose innovative solutions in new sectors too. Its range is both absolutely functional and flexible to use, as well as aesthetically linear and detailed.

Pizzato Elettrica's EL AD series lift control stations convey these features and use the EROUND line control and signaling devices.

EL AD lift control stations are designed to drive the lift movement during control and maintenance operations.

### According to EN 81-20 and EN 81-50 standards

International standards EN 81-20 and EN 81-50 establish new, updated technical and safety directives and represent an important step forward in the construction and installation of lifts.

The range of EL control and signalling stations was conceived to be in full compliance with the requirements set by these standards.



### Reduced height

More and more optimised spaces in the lift shaft have led to the need for boxes conceived for reduced height lifts.

However, this requirement must not compromise the solidness, reliability and practicality of manually operated devices.

Pizzato has managed to combine these features by offering the innovative vertical version of the new EL AD series box: it has a maximum height of 60mm, yet it is equipped with standard contact units, built-in devices (including an electrical socket), an emergency button and a big selector, the latter two with solid protections.

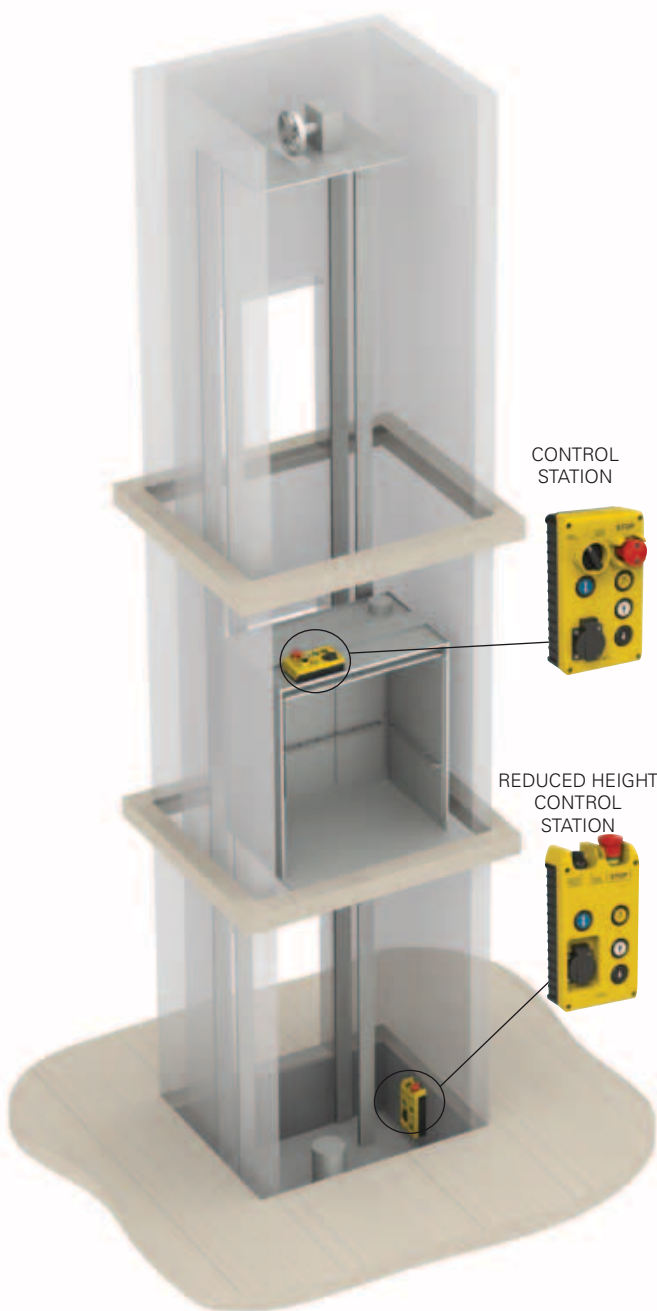


### Modularity



Lift control stations have been conceived as a customizable product, providing the widest and most versatile choice in the combination of applicable devices.

Several configuration options are possible thanks to the innovative mold with modular, exchangeable elements (registered patent) which allows free arrangement of the perforated holes and shapes for housing various devices; this modular mold is employed to create the whole cover, which is just one solid piece produced by means of a single moulding process.



### Sturdiness



The solid structure of the station, made of stout and thick materials, and the built-in buttons, not projecting from the surface, protect the devices from being hit or stepped on. In addition, solid protections for the

bigger control devices, such as emergency buttons and selectors, make the product suitable for the harshest environments.

Also in the 60mm-reduced height version, two solid protections surround the two top-mounted devices.

### Easy cabling

The modern and agreeable product design ensures both technical and practical advantages, the first of which is an easy-wiring process. As a matter of fact, the control station not only features 4 cable-entries on the lower face, but also a maximum of 6 cable-entries on the enclosure's cover.

Thanks to the cover cable-entries, actuating devices, wiring and cable-inlets are all on the same side of the enclosure, thus simplifying and accelerating the process of wiring and closing the control station.



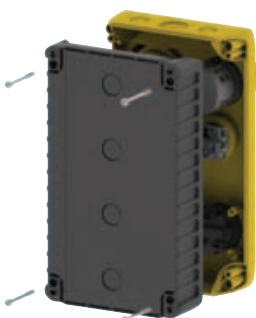
### Custom wiring

Lift control stations can be supplied with wiring, following customers' specifications both for cables and connectors to be used. This further customization, in accordance with customers' needs, makes the control stations ready for the final installation.



### Rear fastening of the cover

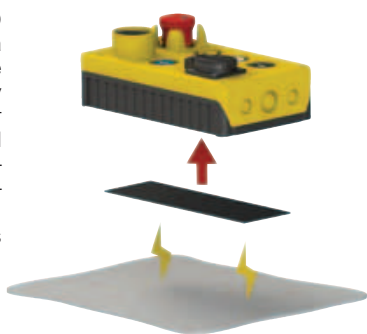
The cover's fixing screws are positioned behind the station, so they are not visible. Moreover, the station can only be opened after removing it from the wall where it is fixed, making tampering more difficult.



### Magnetic bases

All control stations EL AD 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.

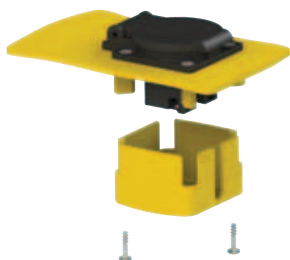
Adhesive magnetic bases can be applied at a later time.



### Electrical socket

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

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



### Fixing hook

The special design of the 60mm-reduced height station has also been conceived in order to get a practical fixing hook between the two top-mounted devices. Through this solid hook, the control station can be hung on a wall easily.



### Shaped base

On the station's base, a knurling allows an easier grip for grabbing and handling the station.



### LASER marking

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



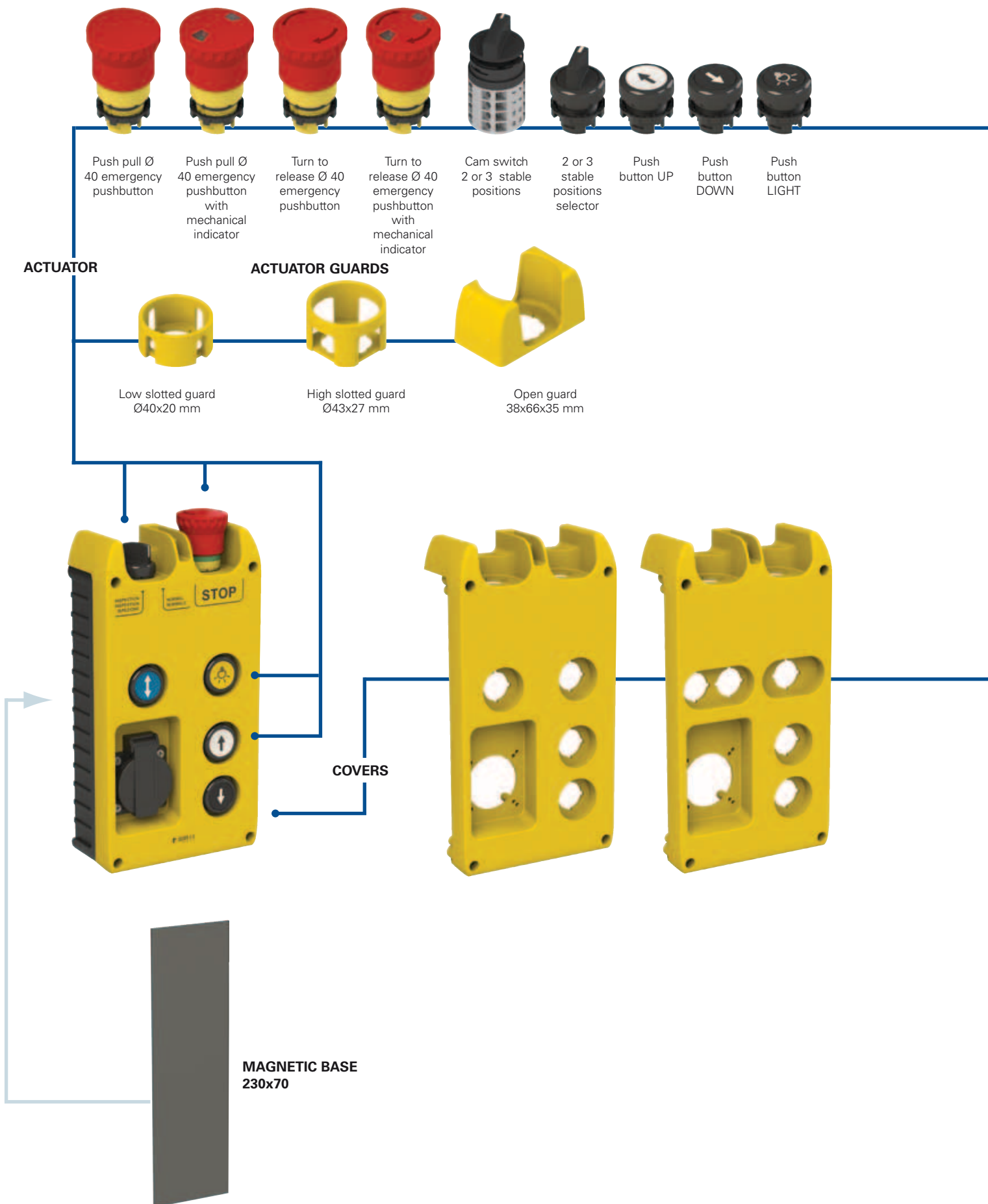
### Cam switch and selector



In control station EL AC series can be installed rotary cam switches as an alternative to the selectors. 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.

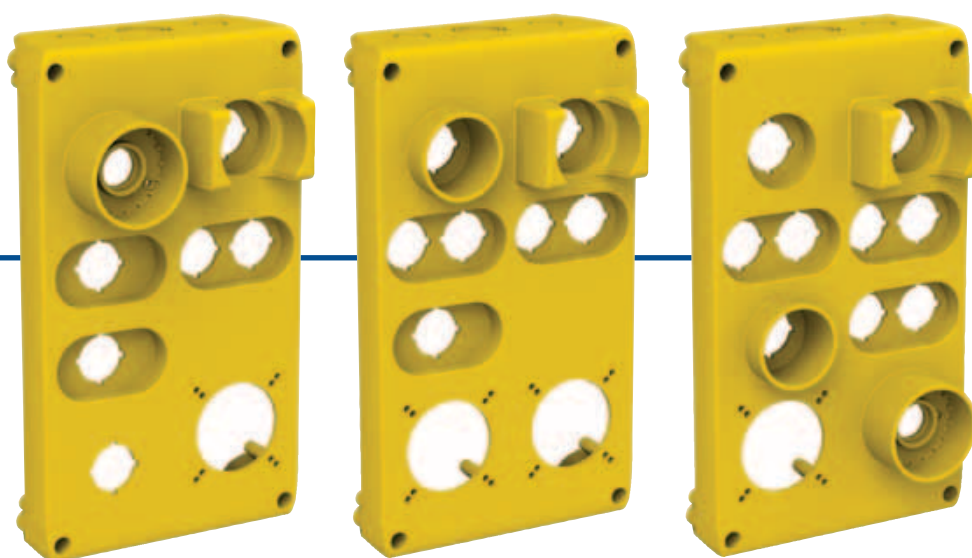
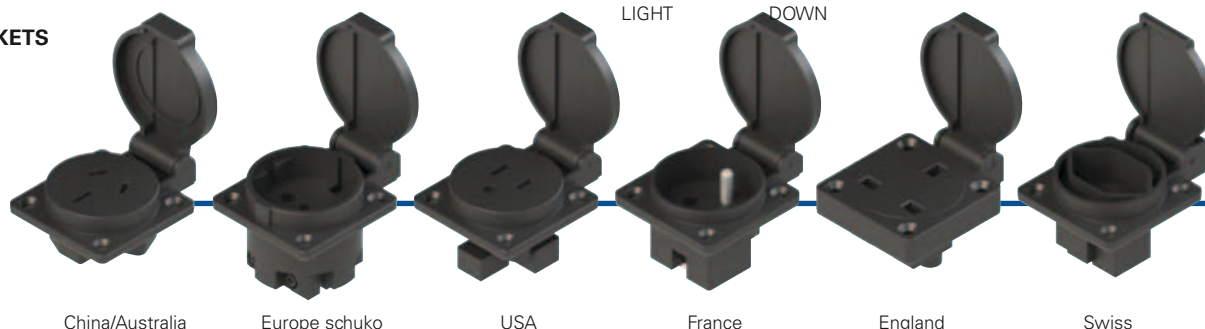
The covers dedicated to house the cam switches provide a suitable slot with protection guard. Equipped with gasket below the knob provides an IP67 protection degree.

## Selection diagram

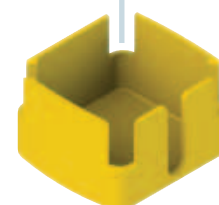




## SOCKETS



Other covers available.  
See page 103.



Socket protection

—●— product option  
—→— accessory sold separately

## Code structure

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

## EL AD23010

### Box shapes

<b>1</b>	240 x 160 mm (standard height)
<b>3</b>	260 x 160 mm (60mm height)

### Configuration progressive number

<b>010</b>	configuration 010
<b>011</b>	configuration 011
<b>012</b>	configuration 012
...	.....





### Main data

- Reduced height version (60mm)
- Inputs on cover for easy wiring
- Multiple configurations available
- Degree of protection up to IP69K
- Devices embedded or guarded
- Customizable electric socket

### Markings and quality marks (enclosures):



Approval EAC: RU C-IT.A135.B.00454

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



Approval IMQ: CA02.04805

Approval UL: E131787

Approval CCC: 2013010305631156

Approval EAC: RU C-IT.A135.B.00454

### Technical data

#### Housing

Made of shock-proof, self-extinguishing polymer with double insulation, UV resistant, Cover:

Standard version:	
2 lateral knock out conduit entries:	M20 - M25 - PG 13,5 - 1/2 NPT
4 lateral knock out conduit entries:	M16 - PG 11
Reduced height version:	
1 lateral knock out conduit entries:	M20 - M25 - PG 13,5 - 1/2 NPT
2 lateral knock out conduit entries:	M16 - PG 11

Base:

4 ingressi inferiori passanti a sfondamento:	M20 - PG 13,5 - 1/2 NPT
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Base colour:

Black RAL 9005

Cover colour:

Yellow RAL 1023 (standard)

Screws materials:

Galvanized steel, stainless steel on request

Protection degree:

IP40 according to EN 60529 (standard)  
IP54 according to EN 60529 (on request) according to EN 60529  
IP65 according to EN 60529 (on request)  
IP67 according to EN 60529 (on request)  
IP69K according to ISO 20653 (on request) 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 60947-5-1, EN 60947-5-1, EN 60947-1, IEC 60204-1, EN 60204-1, IEC 60947-5-5, EN 60947-5-5, EN ISO 14119, IEC 60529, EN 60529, EN 81-20, EN 81-50, UL 508, CSA 22.2 No.14

#### ⚠ 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 EN 81-20 par. 5.11.2.2.1.

#### In conformity with requirements requested by:

Low Voltage Directive 2006/95/EC, Machinery Directive 2006/42/EC and EMC Directive 2014/30/EC.

#### 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 111.

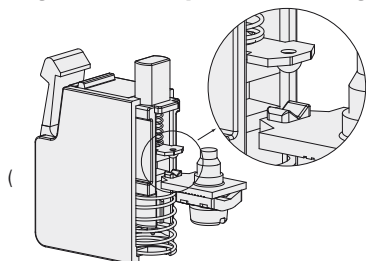
### Electrical data

Thermal current (Ith):	10 A
Rated insulation voltage (Ui):	500 Vac/dc
Protection against short circuits:	fuse 10 A 500 V type gG/gL
Rated impulse withstand voltage (U <sub>imp</sub> ):	8 kV
Pollution degree:	3

### Utilization categories

Alternate current: AC15 (50÷60 Hz)					
Ue (V)	24	48	120	250	400
Ie (A)	6	6	6	6	3
Direct current: DC13					
Ue (V)	24	48	125	250	
Ie (A)	2.5	1.3	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.

### Characteristics approved by UL

Utilization categories:	A600 pilot duty (720 VA, 120 ... 600 Vac) Q300 pilot duty (69 A, 125 ... 250 Vdc)
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### Characteristics approved by IMQ

Rated insulation voltage (Ui):	500 V
Conventional free air thermal current (Ith):	10 A
Thermal current in enclosure (Ithe):	10 A
Rated impulse withstand voltage (U <sub>imp</sub> ):	8 kV
Protection degree of the housing:	IP20
Terminals:	screw terminals
Utilization category:	AC15
Operating voltage (Ue):	400 Vac (50/60 Hz)

Operating current (Ie):	3 A
Forms of the contact element:	X, Y
Positive opening of contacts on contact blocks:	01G, 01K
In conformity with standards:	EN 60947-1, EN 60947-5-1 + A1:2009, fundamental requirements of the Low Voltage Directive 2006/95/EC.

Notes:  
- Use 60° or 75 °C copper (Cu) conductor, rigid or flexible, wire size AWG 12-20.  
- Terminal tightening torque of 7.1 Lb In (0.8 Nm).

## EL AD23004



	DEVICES	CONTACTS	WIRING LAYOUT
	<b>Emergency pushbutton Ø40</b> turn to release, with green indication, with guard	1NC	
	<b>Short handle selector</b> 2 stay-put positions, black colour, with guard	2NO+2NC	NORMAL INSPECTION
	<b>Pushbutton ENABLE</b> flush, spring-return, blue colour	1NO	
	<b>Pushbutton UP</b> flush, spring-return, white colour	2NO	
	<b>Pushbutton DOWN</b> flush, spring-return, black colour	2NO	
	<b>Pushbutton LIGHT</b> flush spring-return, yellow colour	1NO	
	<b>Schuko socket 16A 250 Vac</b> with internal protection		

## EL AD23007



	DEVICES	CONTACTS	WIRING LAYOUT
	<b>Emergency pushbutton Ø40</b> turn to release, with green indication, with guard	2NC	
	<b>Short handle selector</b> 2 stay-put positions, black colour, with guard	2NO+2NC	NORMAL INSPECTION
	<b>Pushbutton ENABLE</b> flush, spring-return, blue colour	1NO	
	<b>Monolithic indicator light Ø 30</b> red colour	Red led 12...30 Vac/dc	
	<b>Pushbutton ALARM</b> flush, spring-return, yellow colour	1NO	
	<b>Pushbutton LIGHT</b> flush, spring-return, black colour	1NO	
	<b>Pushbutton UP</b> flush, spring-return, white colour	2NO+1NC	
	<b>Pushbutton DOWN</b> flush, spring-return, black colour	2NO+1NC	
	<b>Schuko socket 16A 250 Vac</b> with internal protection		

## EL AD23006



	DEVICES	CONTACTS	WIRING LAYOUT
	<b>Emergency pushbutton Ø40</b> turn to release, with green indication, with guard	2NC	
	<b>Short handle selector</b> 2 stay-put positions, black colour, with guard	2NO+2NC	NORMAL INSPECTION
	<b>Buzzer, continuous alarm</b> open lens, black colour	24Vac/dc	
	<b>Monolithic indicator light Ø 30</b> white colour	White led 12...30 Vac/dc	
	<b>Pushbutton UP</b> flush, spring-return, white colour	2NO+1NC	
	<b>Pushbutton CLOSE</b> flush, spring-return, black colour	1NO	
	<b>Pushbutton OPEN</b> flush, spring-return, white colour	1NO	
	<b>Pushbutton DOWN</b> flush, spring-return, black colour	2NO+1NC	
	<b>Pushbutton ALARM</b> flush, spring-return, yellow colour	1NO	
	<b>Pushbutton LIGHT</b> flush, spring-return, black colour	1NO	
	<b>Pushbutton ENABLE</b> flush, spring-return, blue colour	1NO	

## EL AD21002



	DEVICES	CONTACTS	WIRING LAYOUT
	<b>Emergency pushbutton Ø 40</b> push-pull, with mechanical indicator, with guard	1NC	
	<b>Cam switch</b> 2 stay-put positions, black colour, with guard	2NO+2NC	NORMAL INSPECTION
	<b>Pushbutton ENABLE</b> flush, spring-return, blue colour	1NO	
	<b>Pushbutton UP</b> flush, spring-return, white colour	2NO	
	<b>Pushbutton DOWN</b> flush, spring-return, black colour	2NO	
	<b>Pushbutton LIGHT</b> flush, spring-return, yellow colour	1NO	
	<b>Schuko socket 16A 250 Vac</b> with internal protection		

## EL AD21006



	DEVICES	CONTACTS	WIRING LAYOUT
	<b>Emergency pushbutton Ø 40</b> push-pull, with guard	2NC	
	<b>Short handle selector</b> 2 stay-put positions, black colour, with guard	2NO+2NC	NORMAL INSPECTION
	<b>Pushbutton ENABLE</b> flush, spring-return, blue colour	1NO	
	<b>Buzzer, continuous alarm</b> open lens, black colour	24Vac/dc	
	<b>Pushbutton UP</b> flush, spring-return, white colour	2NO	
	<b>Pushbutton DOWN</b> flush, spring-return, black colour	2NO	
	<b>Pushbutton ALARM</b> flush, spring-return, yellow colour	1NO	
	<b>Pushbutton LIGHT</b> flush, spring-return, black colour	1NO	
	<b>Schuko socket 16A 250 Vac</b> with internal protection		
	<b>USA socket 15A 125 Vac</b> with internal protection		

## EL AD21008



	DEVICES	CONTACTS	WIRING LAYOUT
	<b>Emergency pushbutton Ø 40</b> push-pull, with guard	2NC	
	<b>Cam switch Ø 42</b> 2 stay-put positions, black colour, with guard	2NO+4NC	NORMAL INSPECTION
	<b>Pushbutton ALARM</b> flush, spring-return, yellow colour	1NO	
	<b>Pushbutton LIGHT</b> flush, spring-return, black colour	1NO	
	<b>Pushbutton UP</b> flush, spring-return, white colour	2NO+1NC	
	<b>Pushbutton DOWN</b> flush, spring-return, black colour	2NO+1NC	
	<b>Pushbutton ENABLE</b> flush, spring-return, blue colour	1NO	
	<b>Buzzer, continuous alarm</b> open lens, black colour	24Vac/dc	
	<b>WHITE luminous disc</b> white fixed light 5 LUX	24Vac/dc	
	<b>Schuko socket 16A 250 Vac</b> with internal protection		


















## EL AD21007



	DEVICES	CONTACTS	WIRING LAYOUT
	<b>Emergency pushbutton Ø40</b> push-pull, with mechanical indicator, with guard	2NC	
	<b>Short handle selector</b> 2 stay-put positions, black colour, with guard	2NO+2NC	NORMAL  INSPECTION 
	<b>Pushbutton ENABLE</b> flush, spring-return, blue colour	1NO	
	<b>Pushbutton ALARM</b> flush, spring-return, yellow colour	1NO	
	<b>Pushbutton LIGHT</b> flush, spring-return, black colour	1NO	
	<b>Pushbutton UP</b> flush, spring-return, white colour	2NO+1NC	
	<b>Pushbutton DOWN</b> flush, spring-return, black colour	2NO+1NC	
	<b>Schuko socket 16A 250 Vac</b> with internal protection		






















## EL AD21004



	DEVICES	CONTACTS	WIRING LAYOUT
	<b>Emergency pushbutton Ø 40</b> turn to release, with mechanical indicator, with guard	1NC	
	<b>Short handle selector</b> 2 stay-put positions, black colour, with guard	2NO+2NC	NORMAL  INSPECTION 
	<b>Pushbutton UP</b> flush, spring-return, white colour	2NO	
	<b>Pushbutton DOWN</b> flush, spring-return, black colour	2NO	
	<b>Pushbutton ENABLE</b> flush, spring-return, blue colour	1NO	
	<b>Pushbutton LIGHT</b> flush, spring-return, black colour	1NO	
	<b>Pushbutton ALARM</b> flush, spring-return, yellow colour	1NO	
	<b>Schuko socket 16A 250 Vac</b> with internal protection		

## EL AD21005

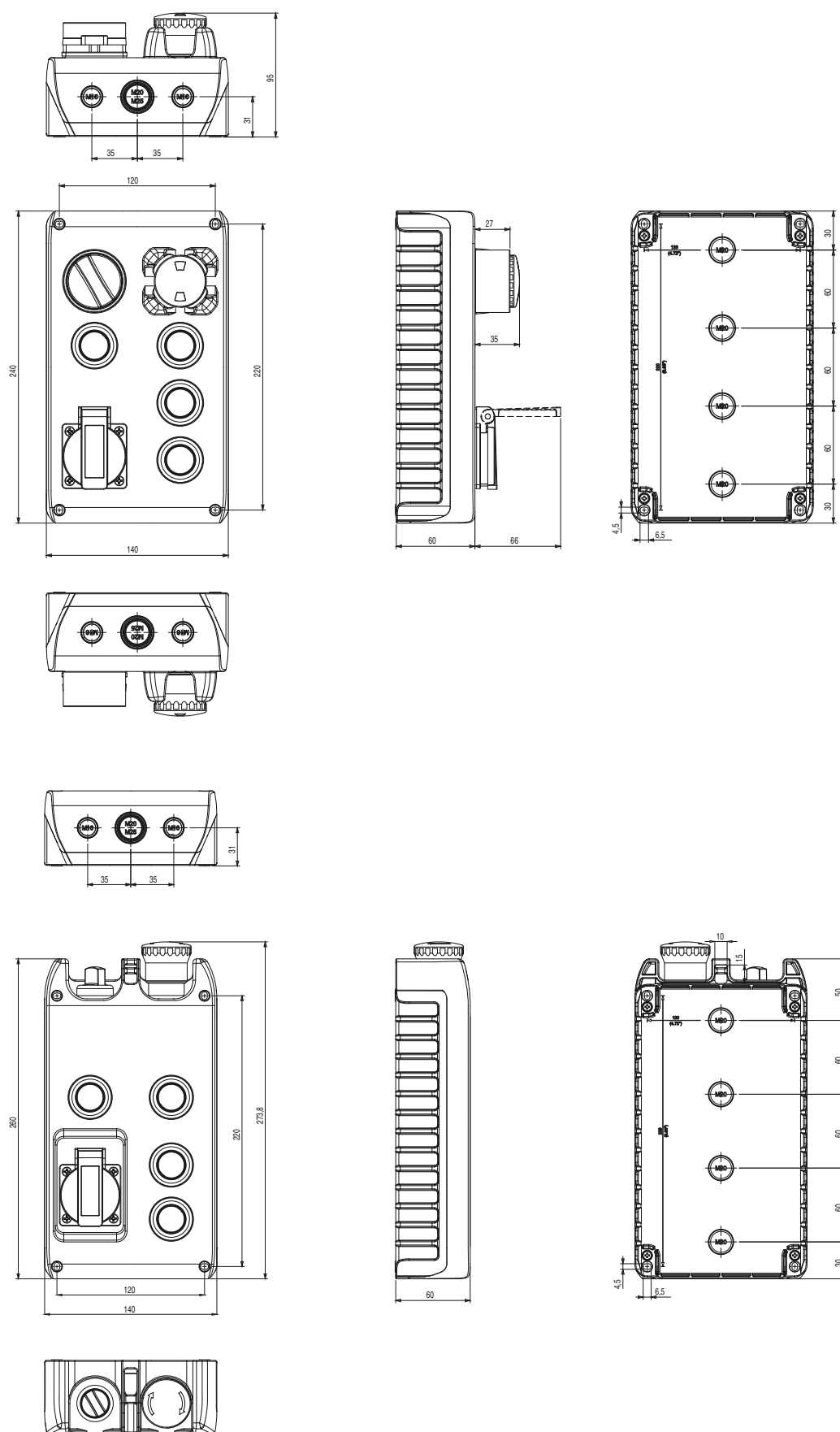


	DEVICES	CONTACTS	WIRING LAYOUT
	<b>Emergency pushbutton Ø 40</b> push-pull, with mechanical indicator, with guard	2NC	
	<b>Cam switch Ø 42</b> 2 stay-put positions, black colour, with guard	2NO+2NC	NORMAL  INSPECTION 
	<b>Pushbutton ALARM</b> flush, spring-return, yellow colour	1NO	
	<b>Pushbutton LIGHT</b> flush, spring-return, black colour	1NO	
	<b>Short handle selector</b> 3 positions, black colour, with guard, spring-return left, stay-put, spring-return right	2NO	
	<b>Buzzer, continuous alarm</b> open lens, black colour	24Vac/dc	
	<b>Monolithic indicator light Ø 30</b> white colour	Led bianco 12...30 Vac/dc	
	<b>Schuko socket 16A 250 Vac</b> with internal protection		
	<b>Pushbutton UP</b> flush, spring-return, white colour	2NO+1NC	
	<b>Pushbutton DOWN</b> flush, spring-return, black colour	2NO+1NC	
	<b>Pushbutton ENABLE</b> flush, spring-return, blue colour	1NO	



## Lift control stations EL AD series dimesions

All measures in the drawings are in mm




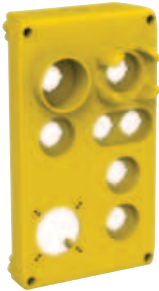
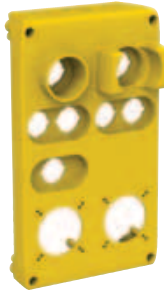
→ The 2D/3D files are available at [www.pizzato.com](http://www.pizzato.com)

## Notes

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Selection table of covers EL AD series (versions for selector)

WARNING: Internal code is not an article. Loose covers are not available for sale

					
Internal code	25502	25523	25527	25519	25526

Selection table of covers EL AD series (versions for cam switch)

WARNING: Internal code is not an article. Loose covers are not available for sale

			
Internal code	25501	25522	25524

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