

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 AD series control stations are equipped with Pizzato Elettrica EROUND signalling and control devices.

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



Reduced height

Continuous optimisation of the space available in the lift shaft has led to the need for control stations with reduced height.

Pizzato meets these requirements by offering the innovative vertical variant of the new EL AD series housing: with a maximum overall height of 60 mm, contact blocks of standard height can be used, as well as recessed devices, including sockets, emergency stop buttons and generously dimensioned selector switches with robust protective guards.



Robustness



The protection of devices against impacts or kicks is guaranteed by both the solid structure of the station – which is made from robust, extra thick materials – and by the use of buttons which are inte-

grated and therefore do not protrude from the surface. In addition, the use of robust guards for particularly bulky control switches, such as emergency stop buttons or selector switches, makes the product applicable in the toughest environments.

In the 60mm reduced height version, two solid guards have also been incorporated, designed to protect the two devices mounted on the top.

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.

Ease of wiring

The design of the product offers many technical and practical advantages, the first of which is the ease of cabling: in addition to the four entries for cables on the base, there are up to six entries on the cover.



Having the entries directly on the cover means having everything positioned on the same side of the station, thus simplifying and speeding up the cabling and closing of the control station.

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.

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



Rear fixing of the cover

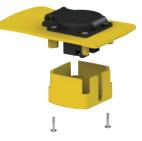
The cover fixing screws on the base are positioned obscured from view, behind the station; this in turn means that the station can only be opened once removed from the wall where it is fixed - making tampering more difficult.



Electrical socket

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

It is available in various versions to comply with different country-specific regulations.



Changeover switches and selector switches



In the EL AD 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 6 contacts.

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

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

Fixing hook

The specific shape of the reduced height 60mm station also allows a practical fixing hook, positioned between the two devices mounted on the top, to be incorporated. With this robust hook, the control station can easily be hung on the wall.



Profiled base

The station base is also knurled, allowing easier grip when picking up and handling the station.



LASER engraving

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

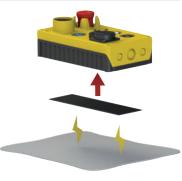
Thanks to this new system, which does not use pad printing or labels, engravings on the products are indelible and durable over time.

The laser engravings of the EL AD 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.



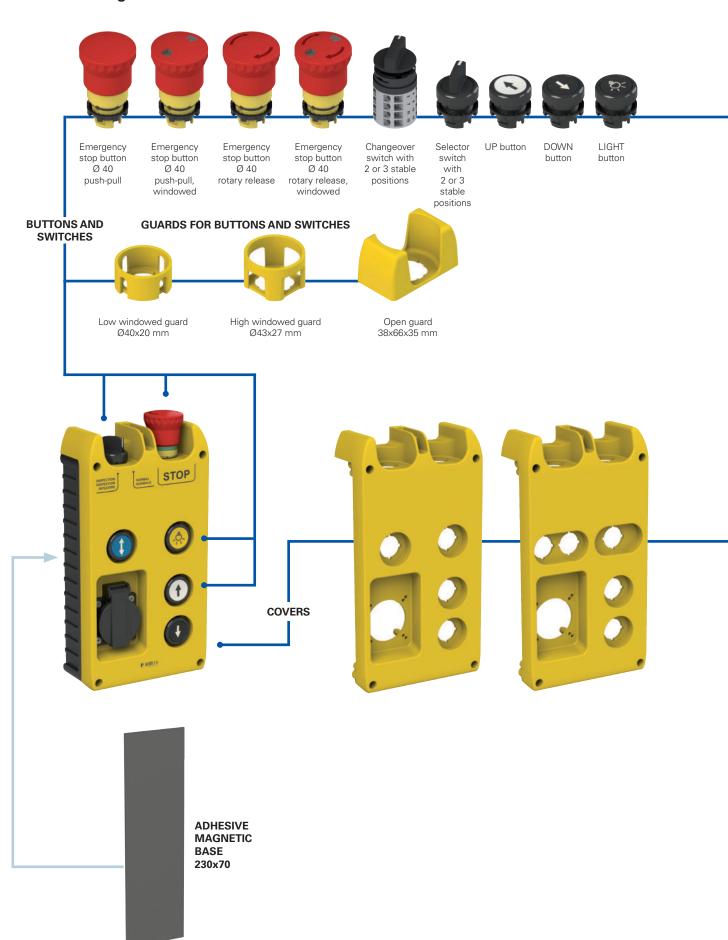
Magnetic fixing bases

All EL AD 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.



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Selection diagram





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

Housing shape		Incremental configuration number	
1	240 x 160 mm	010	configuration 010
(standard height)		011	configuration 011
3 260 x 160 mm (height 60mm)		012	configuration 012
			rem

EL AD series control stations



Main features

- Reduced height version (60mm)
- Entries on cover for easier wiring
- Various configurations available
- Protection degree up to IP69K
- Devices flush-mounted or protected by guard
- Customisable electrical socket

Housing quality marks:

EAC approval: RU C-IT.АД35.В.00454

Contact block quality marks:



UL approval:

CCC approval:

EAC approval:







E131787 2013010305631156 RU C-IT.АД35.В.00454

Technical data

Housing

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

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

4 lateral knock-out entries: M16 - PG 11 Reduced height version:

M20 - M25 - PG 13.5 - 1/2 NPT 1 lateral knock-out entry:

2 lateral knock-out entries: M16 - PG 11

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

Base colour: Black RAL 9005 Yellow RAL 1023 Cover colour: Material of the screws: Zinc-plated steel:

stainless steel available on request Protection degree acc. to EN 60529:

IP40 (standard) IP54 (on request) 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 1 ... 1.4 Nm Cover screw tightening torque:

In compliance 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 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.

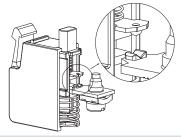
Positive contact opening in conformity with standards:

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		Utilization category
Thermal current (I _{th}): Rated insulation voltage (U _t): Protection against short circuits: Rated impulse withstand voltage (U _{imp}): Pollution degree:	10 A 500 Vac/dc type gG/gL fuse 10 A 500 V 8 kV 3	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

01G, 01K

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

Features approved by UL

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A600 pilot duty (720 VA, 120-600 V ac) Electrical Ratings: 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 terminal for the block of the company of 71 block of 20 MeV. 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.): 500 V Conventional free air thermal current (I_{th}): 10 A Thermal current inside housing (I,to): 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_e): 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

In compliance with standards: EN 60947-1, EN 60947-5-1, fundamental requirements of the Low Voltage Directive 2014/35/EU.

Lift General Catalogue 2020-2021

EL AD23004

	DEVICES	CONTACTS	DIAGRAM
STOP	Emergency stop button Ø40 rotary release, with green indicator, with guard	1NC	Q-FV-
NORMAL POSTCAPA	Selector switch with short handle 2 stable positions, black, with guard	2NO+2NC	NORMAL \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
(1)	ENABLE button flush, spring-return, blue	1NO	E\
①	UP button flush, spring-return, white	2NO	E
0	DOWN button flush, spring-return, black	2NO	E
	LIGHT button flush, spring-return, yellow	1NO	E-7
9 T 9	Schuko socket 16 A 250 Vac with internal fuse	/	(°°°)

EL AD23006



	DEVICES	CONTACTS	DIAGRAM
STOP	Emergency stop button Ø40 rotary release, with green indicator, with guard	2NC	0.F-\-\
	Selector switch with short handle 2 stable positions, black, with guard	2NO+2NC	NORMAL \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
((-))	Buzzer, continuous alarm perforated lens, black	24 Vac/dc	F
	Monolithic indicator light Ø 30 white	White LED 12 30 Vac/ dc	——— LED
①	UP button flush, spring-return, white	2NO+1NC	E
₽	CLOSE button flush, spring-return, black	1NO	E-7
①	OPEN button flush, spring-return, white	1NO	E-7
0	DOWN button flush, spring-return, black	2NO+1NC	E- \ \ \ \
	ALARM button flush, spring-return, yellow	1NO	E\
	LIGHT button flush, spring-return, black	1NO	E-7
0	ENABLE button flush, spring-return, blue	1NO	E\

EL AD23007



	DEVICES	CONTACTS	DIAGRAM
STOP	Emergency stop button Ø40 rotary release, with green indicator, with guard	2NC	GF->
NORMAL POWERTON PERSONNEL PROPERTY.	Selector switch with short handle 2 stable positions, black, with guard	2NO+2NC	NORMAL \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1	ENABLE button flush, spring-return, blue	1NO	E\
	Monolithic indicator light \emptyset 30 colour: red	Red LED 12 30 Vac/ dc	———— LED
	ALARM button flush, spring-return, yellow	1NO	E\
	LIGHT button flush, spring-return, black	1NO	E\
①	UP button flush, spring-return, white	2NO+1NC	E\ \
0	DOWN button flush, spring-return, black	2NO+1NC	E\ \ \ \ \
	Schuko socket 16 A 250 Vac with internal fuse	/	(°°)

EL AD series control stations

EL AD21002 DIAGRAM DEVICES CONTACTS Emergency stop button Ø 40 windowed push pull release, with guard **4** 1NC STOP NORMAL **Changeover switch** 2 stable positions, black, with guard 2NO+2NC INSPECTION **ENABLE** button 1NO flush, spring-return, blue **UP button** flush, spring-return, white 2NO **DOWN button** flush, spring-return, black 2NO LIGHT button flush, spring-return, yellow 1NO Schuko socket 16 A 250 Vac with internal fuse **EL AD21006** DEVICES CONTACTS DIAGRAM **STOP** Emergency stop button Ø 40 push-pull release, with guard 03~-7 2NC NORMAL Selector switch with short handle 2 stable positions, black, with guard 2NO+2NC INSPECTION ENABLE button flush, spring-return, blue 1NO Buzzer, continuous alarm perforated lens, black 24 Vac/dc **UP button** flush, spring-return, white 2NO DOWN button flush, spring-return, black **2NO** ALARM button flush, spring-return, yellow 1NO **LIGHT button** flush, spring-return, black 1NO Schuko socket 16 A 250 Vac with internal fuse USA 15 A 125 Vac socket with internal fuse **EL AD21008** DEVICES CONTACTS DIAGRAM **STOP** Emergency stop button Ø 40 push-pull release, with guard 2NC STOP NORMAL Changeover switch Ø 42 2 stable positions, black, with guard 2NO+4NC INSPECTION 7 ALARM button flush, spring-return, yellow 1NO **LIGHT button** flush, spring-return, black 1NO **UP button** flush, spring-return, white 2NO+1NC DOWN button flush, spring-return, black 2NO+1NC ENABLE button flush, spring-return, blue 1NO Buzzer, continuous alarm perforated lens, black 24 Vac/dc WHITE luminous disc 5 LUX steady white light 24 Vac/dc Schuko socket 16 A 250 Vac with internal fuse

EL AD21007



	DEVICES	CONTACTS	DIAGRAM
STOP	Emergency stop button Ø40 windowed push-pull release, with guard	2NC	0 3 ~-//
NORMAL DISCOURT	Selector switch with short handle 2 stable positions, black, with guard	2NO+2NC	NORMAL \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
①	ENABLE button flush, spring-return, blue	1NO	E\
(4)	ALARM button flush, spring-return, yellow	1NO	E-\
	LIGHT button flush, spring-return, black	1NO	E\
①	UP button flush, spring-return, white	2NO+1NC	E\ \ \
0	DOWN button flush, spring-return, black	2NO+1NC	E\ \ \ \
	Schuko socket 16 A 250 Vac with internal fuse	/	

EL AD21004



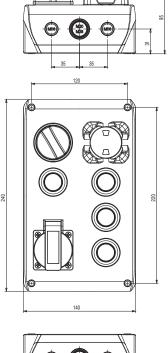
	DEVICES	CONTACTS	DIAGRAM
S T O P	Emergency stop button Ø 40 windowed rotary release, with guard	1NC	0.F-\/-
	Selector switch with short handle 2 stable positions, black, with guard	2NO+2NC	NORMAL \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
0	UP button flush, spring-return, white	2NO	E\
0	DOWN button flush, spring-return, black	2NO	E\
0	ENABLE button flush, spring-return, blue	1NO	E\
	LIGHT button flush, spring-return, black	1NO	E\
4	ALARM button flush, spring-return, yellow	1NO	E
	Schuko socket 16 A 250 Vac with internal fuse	/	000

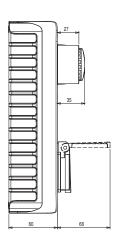
EL AD21005

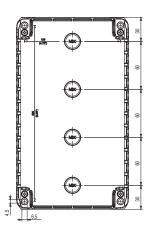


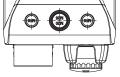
	DEVICES	CONTACTS	DIAGRAM
S T O P	Emergency stop button Ø 40 windowed push-pull release, with guard	2NC	G3~-{
· homes homes homes	Changeover switch Ø 42 2 stable positions, black, with guard	2NO+2NC	NORMAL \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
4	ALARM button flush, spring-return, yellow	1NO	E
.	LIGHT button flush, spring-return, black	1NO	E
	Selector switch with short handle 3 positions, black, with guard, left spring-return, stable, right spring-return	2NO	▶ 4↑ 101 11 11 1
(1-1)	Buzzer, continuous alarm perforated lens, black	24 Vac/dc	_FL
	Monolithic indicator light Ø 30 white	White LED 12 30 Vac/ dc	———— LED
	Schuko socket 16 A 250 Vac with internal fuse	/	
①	UP button flush, spring-return, white	2NO+1NC	E-7
0	DOWN button flush, spring-return, black	2NO+1NC	E>
1	ENABLE button flush, spring-return, blue	1NO	E\

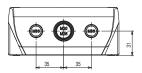
Housing dimensions for EL AD series lift control stations

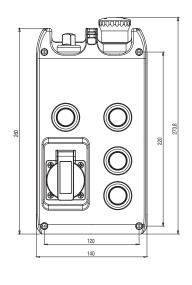


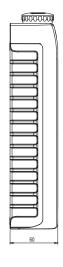


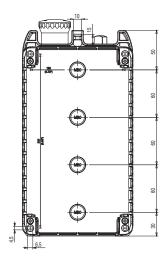














All values in the drawings are in mm

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



EL AD series cover selection table (selector switch versions)

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



EL AD series cover selection table (changeover switch versions)

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