

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.

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.



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.

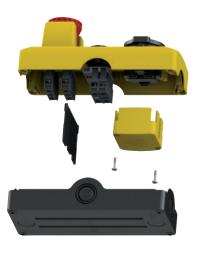


Electrical socket

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

A separator plate is available (which can be installed 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 countryspecific regulations.



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



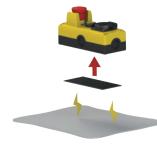
Pizzato Elettrica has introduced a new LASER engraving system for EL AN series control stations.

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.

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.

Visual and audible signals

All devices required for compliance with the provisions of standard

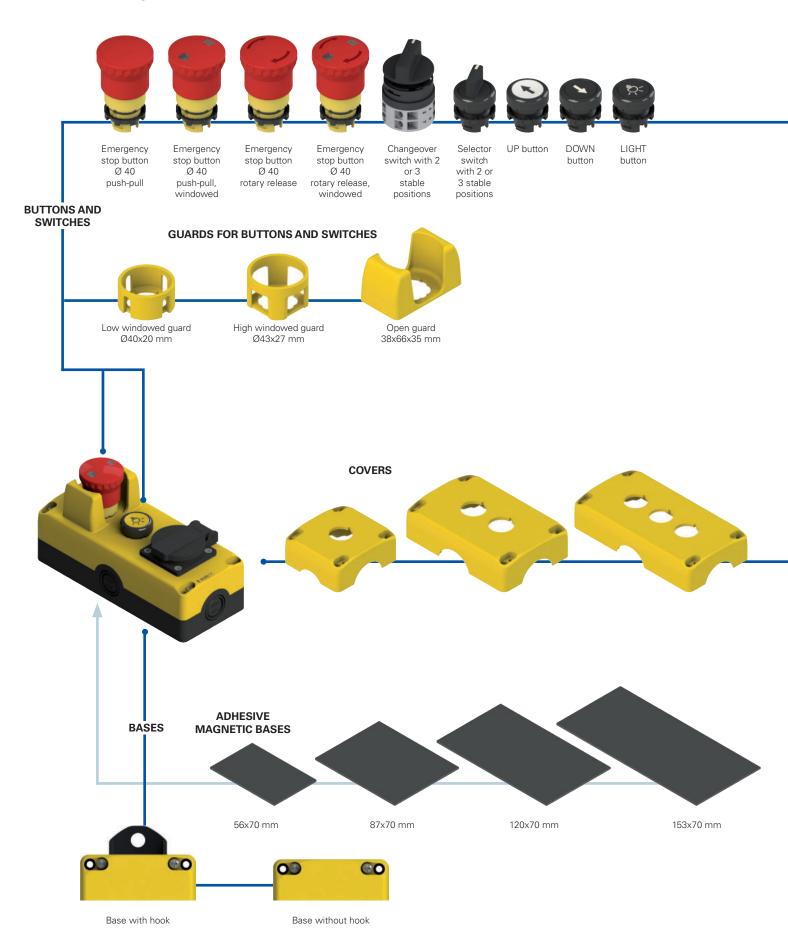
EN 81-20, in terms of visual and audible signals inside the lift shaft, are available.

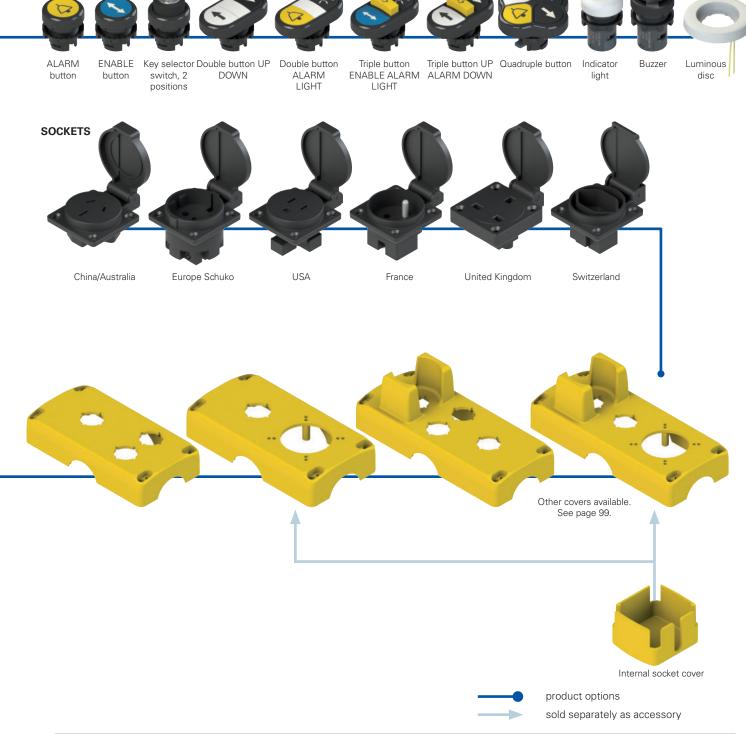
All EL series control and signalling stations can therefore be equipped with white lights, with an intensity of 5 LUX at a distance of 1 metre; flashing yellow lights, and buzzers with con-

tinuous or pulsed tone, with a minimum sound intensity of 55 dB at a distance of 1 metre.



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 AN23000

Housing shape		Inc	remental configuration number
1	72x80h56 mm	000	configuration 000
2	120x80h56 mm	001	configuration 001
3	153x80h56 mm		
4	186x80h56 mm		



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.YT03.B.00035/19

Contact block quality marks:







IMQ approval: CA02.04805 UL approval: E131787

CCC approval: 2013010305631156 RU C-IT.YT03.B.00035/19 EAC approval:

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:

M20 - M25 - PG 13.5 - 1/2 NPT 4 lateral knock-out entries: 2 knock-out entries at bottom: M20 - PG 13.5 - 1/2 NPT Black RAL 9005 Base colour:

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 \odot . Always connect the safety circuit to the NC contacts (normally closed contacts: 1-2) as stated in standard EN 81-20 par.

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.

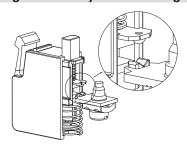
Positive contact opening in conformity with standards:

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 _i): 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

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.): 500 V Conventional free air thermal current (I_{th}): 10 A Thermal current inside housing (I,to): 10 A Rated impulse withstand voltage (U_{imn}): 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 01G, 01K

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



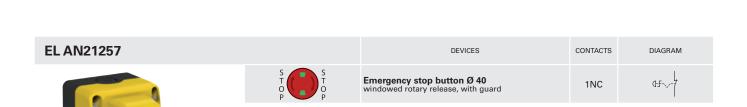
EL AN21223 DEVICES CONTACTS DIAGRAM S T S T Emergency stop button Ø 40 windowed push-pull release, with guard 1NC



EL AN21224		DEVICES	CONTACTS	DIAGRAM
	S T O P	Emergency stop button Ø 40 rotary release, with guard	1NC	Q-F\-



EL AN21256		DEVICES	CONTACTS	DIAGRAM
	S T O O	Emergency stop button Ø 40 push-pull release, with guard	1NC	G3->-



EL AN21365		DEVICES	CONTACTS	DIAGRAM
O a APM	ALARM	ALARM mushroom button Ø 36 spring-return, yellow	1NO	E\
ALARM				

EL AN series control stations

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

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

EL AN21366		DEVICES	CONTACTS	DIAGRAM
	N Y P A S S	Selector switch with short handle 2 stable positions, black, with lockable guard for bypass	1NO	NORMAL SYPASS

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

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

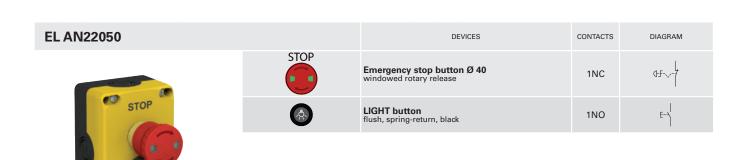
EL AN22012	DEVICES	CONTACTS	DIAGRAM
	Monolithic indicator light Ø 30 colour: red	Red LED 12 30 Vac/ dc	———— LED
	Monolithic indicator light Ø 30 colour: green	Green LED 12 30 Vac/ dc	———— LED



EL AN22036	DEVICES	CONTACTS	DIAGRAM
	Schuko socket 16 A 250 Vac	/	(i)



EL AN22049	DEVICES	CONTACTS	DIAGRAM
80	Buzzer, continuous alarm perforated lens, black	24 Vac/dc	FL
	Indicator light Ø 30 red, blinking	Red LED 12 30 Vac/ dc	———— LED



EL AN23040		DEVICES	CONTACTS	DIAGRAM
STOP	STOP	Emergency stop button Ø 40 rotary release	1NC	G-F-^-
	•	UP button flush, spring-return, white	1NO	E\
	0	DOWN button flush, spring-return, black	1NO	E\
enter 2				

EL AN23072		DEVICES	CONTACTS	DIAGRAM
STOP	STOP	Emergency stop button Ø 40 windowed push-pull release	1NC	₫ 3 ~-
		LIGHT button flush, spring-return, yellow	1NO	E\

EL AN23023		DEVICES	CONTACTS	DIAGRAM
STOP	STOP	Emergency stop button Ø 40 rotary release, with guard	1NC	0F-^-
		Schuko socket 16 A 250 Vac with internal fuse	/	

EL AN23118		DEVICES	CONTACTS	DIAGRAM
	S T O P	Emergency stop button Ø 40 windowed push-pull release, with guard	1NC	43~7
s s	NORMAL PROPERTY.	Selector switch with short handle 2 stable positions, black, with guard	1NO+1NC	NORMAL \ \ \ \ \ \
TOP	\cap	UP button flush, spring-return, white	2NO	E\ \
	U	DOWN button flush, spring-return, black	2NO	E\
ends!				

EL AN23052		DEVICES	CONTACTS	DIAGRAM
	NORMAL MOHALLE INSPECTION INSPECTION INSPECTION	Selector switch with short handle 2 stable positions, black, with guard	2NO+2NC	NORMAL \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	①	UP button flush, spring-return, white	1NO	E\
	0	DOWN button flush, spring-return, black	1NO	E\

EL AN23116		DEVICES	CONTACTS	DIAGRAM
		Buzzer, continuous alarm perforated lens, black	24 Vac/dc	FL
		YELLOW luminous disc blinking yellow light	24 Vac/dc	——— LED
	(ALARM button flush, spring-return, yellow	1NO	E-7
Const. St.				

EL AN23117		DEVICES	CONTACTS	DIAGRAM
		Buzzer, continuous alarm perforated lens, black	24 Vac/dc	_FL
		Monolithic indicator light Ø 30 colour: red	Red LED 12 30 Vac/ dc	———— LED
	(4)	ALARM button flush, spring-return, yellow	1NO	E)
Pares 2				

EL AN23119	DEVICES	CONTACTS	DIAGRAM
	WHITE luminous disc 5 LUX steady white light	24 Vac/dc	———— LED
	ALARM button flush, spring-return, yellow	1NO	E\
	Schuko socket 16 A 250 Vac with internal fuse	/	
P control of			

EL AN24025		DEVICES	CONTACTS	DIAGRAM
STOP &	STOP	Emergency stop button Ø40 windowed push-pull release, with guard	1NC	₽~-{ED
	<u> </u>	Illuminated LIGHT button flush, spring-return, yellow	1NO White LED 12 30 Vac/dc	E\ \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
		Schuko socket 16 A 250 Vac with internal fuse	/	

EL AN24026		DEVICES	CONTACTS	DIAGRAM
STOP &	STOP	Emergency stop button Ø40 windowed push-pull release, with guard	1NC	03., /
	(4)	ALARM button flush, spring-return, yellow	1NO	E\
		Schuko socket 16 A 250 Vac with internal fuse	/	
and a				

EL AN24028		DEVICES	CONTACTS	DIAGRAM
STOP STOP	STOP	Emergency stop button Ø40 windowed push-pull release, with guard	1NC	Q37
		ALARM button flush, spring-return, yellow	1NO	E\
		LIGHT button flush, spring-return, black	1NO	E\
		Schuko socket 16 A 250 Vac with internal fuse	/	
a count				

EL AN24111		DEVICES	CONTACTS	DIAGRAM
STOP	STOP	Emergency stop button Ø 40 rotary release, with guard	1NC	O.F\-
	•	UP button flush, spring-return, white	2NO	E)
	0	DOWN button flush, spring-return, black	2NO	E)
	NORMAL NORMALE	Selector switch with short handle 2 stable positions, black, with guard	2NO+2NC	NORMAL \\\
	INSPECTION PSPECTION ISPEZICATE			INSPECTION 7 7 1
and the same of th				

EL AN24201		DEVICES	CONTACTS	DIAGRAM
STOP STOP	STOP	Emergency stop button Ø 40 push-pull release, with guard	1NC	43 ~-/
	0	UP button flush, spring-return, white	2NO	E\ \
	0	DOWN button flush, spring-return, black	2NO	E\ \
	NOSMALE NOSMALE INSPECTION INSPECTION INSPECTION	Changeover switch Ø 42 2 stable positions, black, with guard	2NO+2NC	NORMAL \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

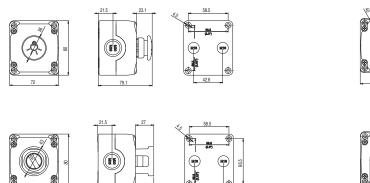
EL AN24202		DEVICES	CONTACTS	DIAGRAM
STOP	STOP	Emergency stop button Ø 40 push-pull release, with guard	1NC	D∃√-
	①	UP button flush, spring-return, white	2NO	E\
	0	DOWN button flush, spring-return, black	2NO	E
	NOTICE NO	Selector switch with short handle 2 stable positions, black, with guard	2NO+3NC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

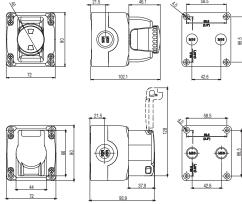
EL ANIO 4000				
EL AN24203		DEVICES	CONTACTS	DIAGRAM
		Selector switch with short handle 2 stable positions, black	1NO+1NC	0
		Selector switch with short handle 2 stable positions, red	1NO+1NC	0 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		Monolithic indicator light Ø 30 colour: green	Green LED 12 30 Vac/ dc	—————————————————————————————————————
	1	UP button flush, spring-return, white	1NO	E\
		DOWN button flush, spring-return, black	1NO	E\
- profits				

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

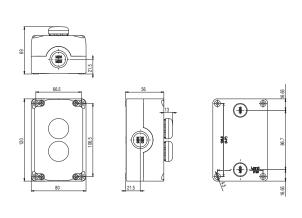


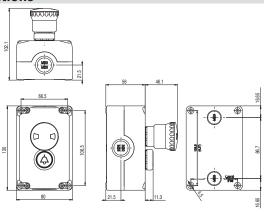
Housing dimensions for EL AN 21 ••• series lift control stations



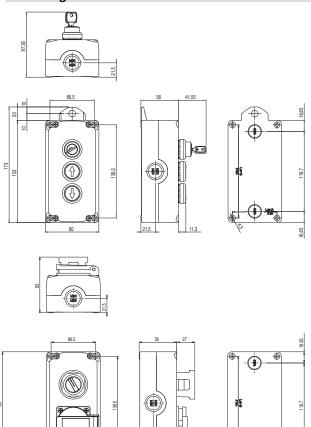


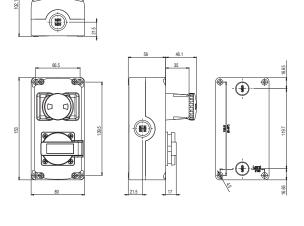
Housing dimensions for EL AN 22 • • • series lift control stations





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

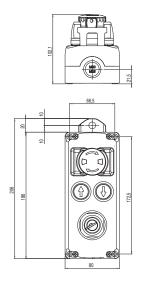


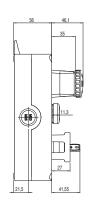


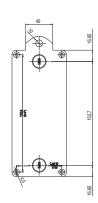
All values in the drawings are in mm

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

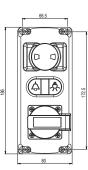
Housing dimensions for EL AN 24 *** series lift control stations

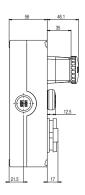






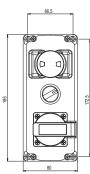


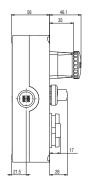


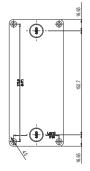












All values in the drawings are in mm

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

EL AN series control stations

EL AN 21 •• series cover selection table

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



EL AN 22 • • • series cover selection table

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



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



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





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

