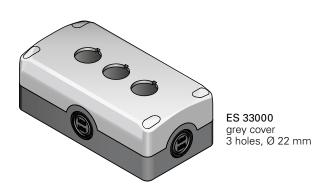
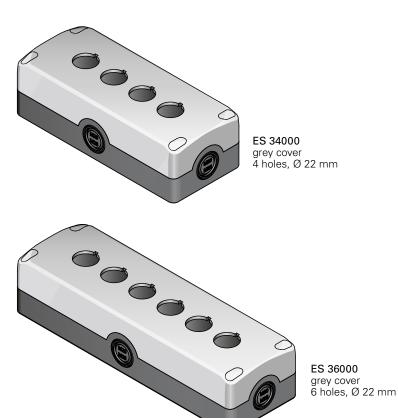
Selection diagram









Enclosure code structure

ES 31001

Housing material 3 Polycarbonate (standard) Box holes and dimensions 1 72x80h56 mm 1 hole, Ø 22 mm 2 120x80h56 mm 2 holes, Ø 22 mm 3 153x80h56 mm 3 holes, Ø 22 mm 4 186x80h56 mm 4 holes, Ø 22 mm 6 252x80h56 mm 6 holes, Ø 22 mm



Main features

- Protection degree IP67 and IP69K
- Stainless steel retained screws
- 4 lateral knock out conduit entries
- Supplied with screw caps

Markings and quality marks:



Technical data

Screw material:

Housing

Material: Shock-proof, self-extinguishing polymer

> with double insulation, UV resistant, fibreglassreinforced material, high-impact resistance.

Stainless steel

Protection degree: IP67 according to IEC 60529 IP69K according to DIN 40050

Conduit entries: 1 hole housing:

• 2 upper and lower knock out conduit entries

M20 - 1/2 NPT

- •2 lateral knock out conduit entries M20-1/2 NPT-M25
- 2 base knock out conduit entries M16

2-3-4-6 holes housings:

- •4 lateral knock out conduit entries M20 1/2 NPT M25
- 2 base knock out conduit entries M20

Devices assembling: Suit for assembling with control and signalling

Ø 22 mm devices.

Ø 22 mm hole according to EN 60947-5-1

see page 3/74

General data

Utilization requirements:

-40°C +80°C Ambient temperature: 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.

In conformity with requirements requested by:

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

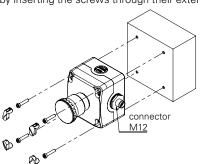
General characteristics

Protection degree IP67 and IP69K

Designed to be employed also in severe environment conditions, Pizzato Elettrica enclosures have protection degree IP67 and IP69K, suitable for use in machineries subjected to intense washing with high pressure and high temperature water jets.

Fitting the EROUND boxes

The new EROUND line boxes by Pizzato Elettrica feature 4 additional holes in the cover, which make it possible to fit the boxes to a wall by inserting the screws through their external part, therefore without



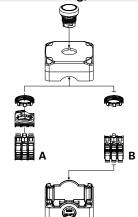
needing to open their cover to gain access to the holes.

The wall-fitting screws and the box cover closing screws can be sealed by means of 4 caps (caps supplied with the box) which, besides improving the appearance of the box line, avoid any dirt being deposited inside the screw recesses and

make tampering more difficult.

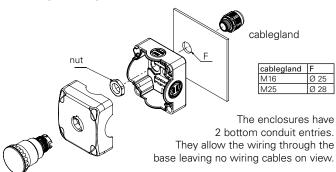
External fitting turns out to be particularly advantageous for prewired boxes, since the entire installation work becomes simpler; all that is needed is to fix the box and attach the connector which, thanks to the cable inlets available on the four sides of the box, can be positioned in the chosen direction.

One housing, two solutions

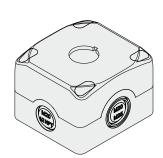


The same housing can have up to 3 contact/LED blocks with panel fixing(E2 CP, E2 LP) to be applied through the fixing adapter (A) or up to 3 contact/LED blocks with base fixing (E2 CF, E2 LF) to be fixed directly to the enclosure base (B).

Wiring through the lower surface

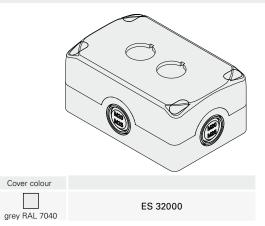


Enclosures selection table

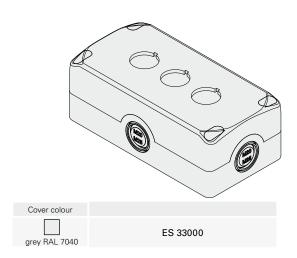


Cover colour	
yellow RAL 1023	ES 31001
grey RAL 7040	ES 31000

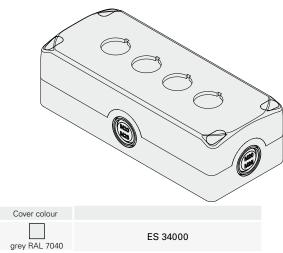
The standard colour of the base in above mentioned codes is BLACK RAL 9005.



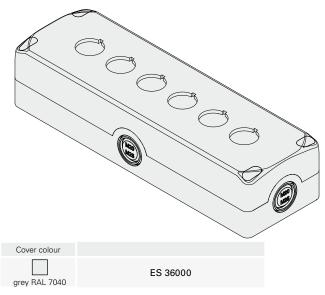
The standard colour of the base in above mentioned codes is BLACK RAL 9005.



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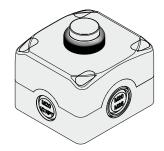


The standard colour of the base in above mentioned codes is BLACK RAL 9005.

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

Complete units with enclosures



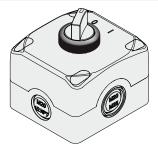


	Actuator		Contacts	3	Flush pushbutton	Projecting pushbutton
Box cover colour			pos 3	pos 1	Black ring	Black ring
grey RAL 7040	green	-	1NO	-	ES AC31001 ES 31000 + E2 1PU2R421L2 + E2 CF10G2V1	-
grey RAL 7040	red	-	1NC →	-	ES AC31002 ES 31000 + E2 1PU2R321L1 + E2 CF01G2V1	ES AC31017 ES 31000 + E2 1PU2S321L1 + E2 CF01G2V1
grey RAL 7040	green	-	1NO	-	ES AC31015 ES 31000 + E2 1PU2R421GB1 + E2 CF10G2V1	-
grey RAL 7040	red	-	1NC →	-	ES AC31016 ES 31000 + E2 1PU2R321GB0 + E2 CF01G2V1	ES AC31018 ES 31000 + E2 1PU2S321GB0 + E2 CF01G2V1

The standard colour of the base in above mentioned codes is $\sf BLACK\ RAL\ 9005.$

→ For contact blocks and pushbuttons characteristics see the relative chapters.

Complete units with enclosures

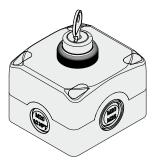


D	Position		Contacts		Two positions black selector
Box cover colour	Position	pos 2	pos 3	pos 1	Black ring
grey RAL 7040	\vee	-	1NO	-	ES AC31019 ES 31002 + E2 1SE12AVA11AB + E2 CF10G2V1

The standard colour of the base in above mentioned codes is BLACK RAL 9005.

→ For contact blocks and LED holders characteristics see the relative chapters.

Complete units with enclosures



Box cover colour	Position		Contacts	;	Two positions key black selector
	FOSILIOII	pos 2	pos 3	pos 1	Black ring
grey RAL 7040	\	-	1NO	-	ES AC31020 ES 31000 + E2 1SC2AVA11AE + E2 CF10G2V1

The standard colour of the base in above mentioned codes is $\ensuremath{\mathsf{BLACK}}$ RAL 9005.

→ For contact blocks and LED holders characteristics see the relative chapters.

Legend

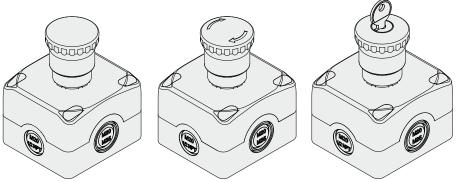


Stay-put

Spring-return

Key extraction position

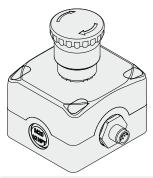
Complete units with enclosures



Box cover colour	Actuator colour and marking		Contacts pos 3		Push-pull emergency button	Turn to release emergency pushbutton	Key release emergency pushbutton
yellow RAL 1023	red	-	1NC →	-	ES AC31004 ES 31001 + E2 1PEPZ4531 + E2 CF01G2V1	ES AC31003 ES 31001 + E2 1PERZ4531 + E2 CF01G2V1	ES AC31022 ES 31001+ E2 1PEBZ4531 + E2 CF01G2V1
yellow RAL 1023	red	1NC →	-	1NC →	-	ES AC31005 ES 31001 + E2 1PERZ4531 + E2 CF01G2V1 + E2 CF01G2V1	ES AC31023 ES 31001+ E2 1PEBZ4531 + E2 CF01G2V1 + E2 CF01G2V1
yellow RAL 1023	red	1NC →	-	1NO	-	ES AC31006 ES 31001 + E2 1PERZ4531 + E2 CF01G2V1 + E2 CF10G2V1	ES AC31011 ES 31001+ E2 1PEBZ4531 + E2 CF01G2V1 + E2 CF10G2V1
yellow RAL 1023	red	1NC →	1NC →	1NO	-	ES AC31021 ES 31001 + E2 1PERZ4531 + E2 CF01G2V1 + E2 CF01G2V1 + E2 CF10G2V1	ES AC31024 ES 31001+ E2 1PEBZ4531 + E2 CF01G2V1 + E2 CF01G2V1 + E2 CF10G2V1

The standard colour of the base in above mentioned codes is BLACK RAL 9005.

→ For contact blocks and emergency pushbuttons characteristics see the relative chapters.



Box cover colour	Actuator colour and		Contacts		Turn to realease emergency pushbuttor				
Box cover colour	marking	pos 2	pos 3	pos 1	Plastic wired M12 connector				
yellow RAL 1023	red	-	1NC →	-	ES AC31025				
yellow RAL 1023	red	1NC →	-	1NC →	ES AC31026				
yellow RAL 1023	red	1NC →	-	1NO	ES AC31027				
yellow RAL 1023	red	1NC →	1NC →	1NO	ES AC31028				

The standard colour of the base in above mentioned codes is BLACK RAL 9005.

→ For contact blocks and emergency pushbuttons characteristics see the relative chapters.

Spare caps

Article Description 4 spare caps for box covers ES series. Colour: yellow VETS29RA1 4 spare caps for box covers ES series. Colour: grey

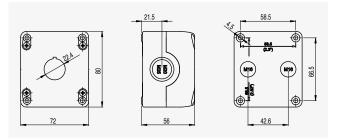
Accessories

→ More ACCESSORIES at page 3/71.

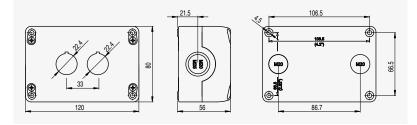
Items with code on the $\ensuremath{\mathbf{green}}$ background are available in stock

Dimensions

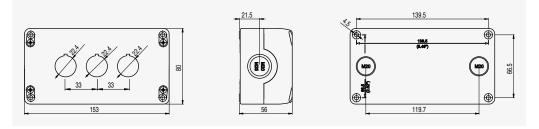
Enclosures (1 hole)



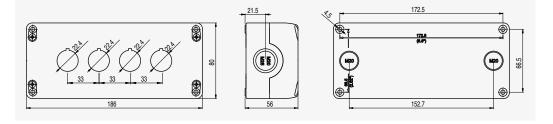
Enclosures (2 holes)



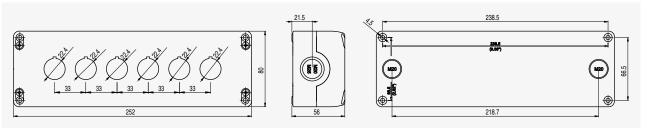
Enclosures (3 holes)



Enclosures (4 holes)



Enclosures (6 holes)



	Notes																						