

Корпуса серии ES

Технические характеристики

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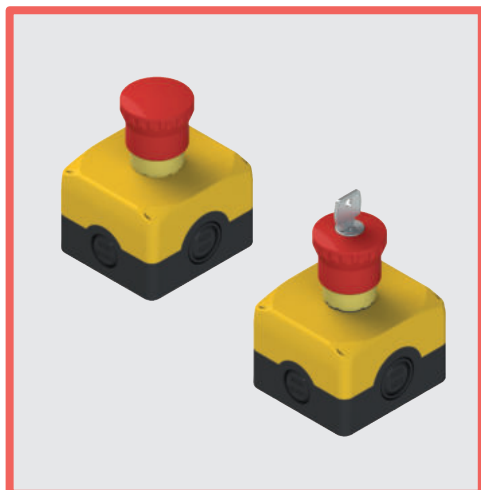
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Беларусь +(375)257-127-884

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эл.почта: poz@nt-rt.ru || сайт: <https://pizzato.nt-rt.ru/>



Main features

- Protection degrees IP67 and IP69K
- Stainless steel captive screws
- 4 side cable entries
- Screw caps included in the scope of supply

Quality marks:



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

Technical data

Housing

Material:

Self-extinguishing shock-proof polycarbonate with double insulation, UV-resistant and glass fibre reinforced, high shock resistance.

Material of the screws:

Stainless steel

Conduit entries:

4x knock-out side entries:
N°2 M20 - 1/2 NPT, N°2 M20 - 1/2NPT - M25
2x M16 knock-out base entries

Emergency stop button

Mechanical endurance:

300,000 operating cycles

Max. actuation frequency:

3600 operating cycles/hour

Actuation travel:

4 mm (NO contact),
4 mm (NC contact)

Actuating force:

25 N

Actuating force at limit of travel:

Push-pull 18.5 N (without contacts)
Rotary release, 35 N (without contacts)

Maximum travel:

9 mm

Tightening torque of the fixing ring:

2 ... 2.5 Nm

General data

Protection degree:

IP67 acc. to EN 60529 (with cable gland of equal or higher protection degree)

IP69K acc. to ISO 20653

(only for versions without luminous disc)

Ambient temperature:

-25°C ... +80°C

Tightening torque of the cover screws:

1 ... 1.4 Nm

Utilization requirements:

see page 169 of the General Catalogue HMI 2023-2024

In compliance with standards:

IEC 60947-1, IEC 60947-5-1, IEC 60204-1, EN 60947-1, EN 60947-5-1, EN 60204-1, EN IEC 63000, EN ISO 13850, UL 508, CSA C22.2 No. 14.

Compliance with the requirements of:

Machinery Directive 2006/42/EC, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU.

General data

Protection degrees IP67 and IP69K

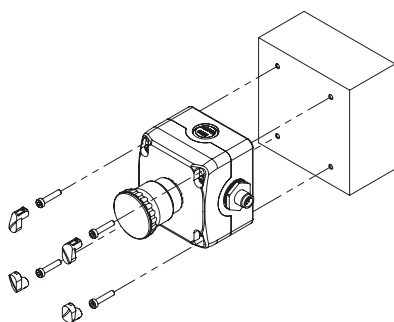
IP69K
IP67

These devices are designed to be used under the toughest environmental conditions, and they pass the IP67 immersion test acc. to EN 60529. They can therefore be used in all environments where the maximum degree

of protection is required for the housing. Due to their special design, these devices are suitable for use in equipment subjected to cleaning with high pressure hot water jets. These devices meet the IP69K test requirements according to ISO 20653 (water jets with 100 bar and 80°C).

Fixing of EROUND housings

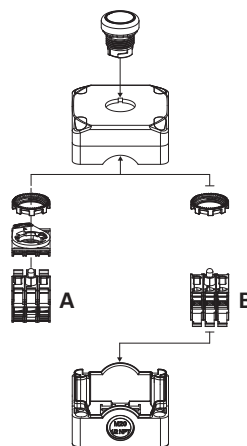
The housings of the EROUND line by Pizzato Elettrica have 4 additional holes on the cover. The holes enable wall fixing from the outside by means of insertion of the screws, without the need to open the cover to access the holes.



The wall fixing screws and the ones for closing the housing cover can be sealed with 4 caps (supplied with the housing). The caps not only give the housing a more pleasant look, but they also prevent the accumulation of dirt inside the recesses of the screws besides making tampering more difficult.

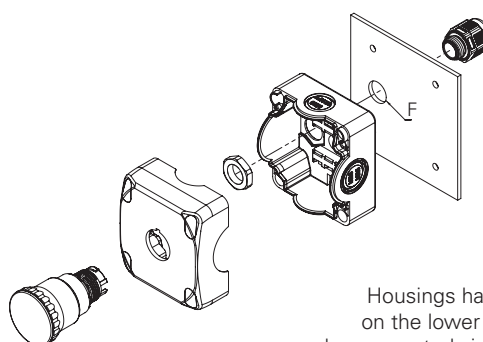
The external fixing of the housings is particularly valuable for already wired housings, since this simplifies the whole installation: you can simply fix the housing and connect the connector that, thanks to the presence of cable entries on the four sides of the housing, can be oriented in the preferred direction.

One housing, two solutions



The housing can fit up to 3 contact blocks/LED units (E2 CP, E2 LP) for panel mounting by means of a mounting adapter (A) or up to 3 contact blocks/LED units (E2 CF, E2 LF) for base mounting directly on the bottom of the housing (B).

Wiring through the lower surface



cable gland	F
M16	Ø 25
M20	Ø 28

Housings have 2 conduit entries on the lower surface. Cables can be connected via this surface, hiding them from view.



Complete housing units with emergency stop buttons



Housing cover colour	Actuator design and colour	Contacts			Emergency stop button Push-Pull	Emergency stop button rotary release	Emergency stop button, key release
		pos. 2	pos. 3	pos. 1			
 yellow RAL 1003	 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 1003	 red	-	1NC  SELF-MONITORED	-	ES AC31081 ES 31001 + E2 1PEPZ4531 + E2 CF01S2V1	ES AC31082 ES 31001 + E2 1PERZ4531 + E2 CF01S2V1	ES AC31083 ES 31001 + E2 1PEBZ4531 + E2 CF01S2V1
 yellow RAL 1003	 red	1NC 	-	1NC 	ES AC31009 ES 31001 + E2 1PEPZ4531 + E2 CF01G2V1 + E2 CF01G2V1	ES AC31005 ES 31001 + E2 1PERZ4531 + E2 CF01G2V1 + E2 CF01G2V1	ES AC31023 ES 31001 + E2 1PEBZ4531 + E2 CF01G2V1 + E2 CF01G2V1
 yellow RAL 1003	 red	1NC 	-	1NO	ES AC31010 ES 31001 + E2 1PEPZ4531 + E2 CF01G2V1 + E2 CF10G2V1	ES AC31006 ES 31001 + E2 1PERZ4531 + E2 CF01G2V1 + E2 CF10G2V1	ES AC31011 ES 31001 + E2 1PEBZ4531 + E2 CF01G2V1 + E2 CF10G2V1
 yellow RAL 1003	 red	1NC 	1NC 	1NO	ES AC31146 ES 31001 + E2 1PEPZ4531 + E2 CF01G2V1 + E2 CF01G2V1 + E2 CF10G2V1	ES AC31021 ES 31001 + E2 1PERZ4531 + E2 CF01G2V1 + E2 CF01G2V1 + E2 CF10G2V1	ES AC31024 ES 31001 + E2 1PEBZ4531 + E2 CF01G2V1 + E2 CF01G2V1 + E2 CF10G2V1

Other combinations on request.

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

→ For properties of contact blocks, see the General Catalogue HMI.



Housing cover colour	Actuator design and colour	Contacts			Emergency stop button Push-Pull Yellow luminous disc, flashing Ø 60 mm, 24 Vac/dc	Emergency stop button rotary release Yellow luminous disc, flashing Ø 60 mm, 24 Vac/dc	Emergency stop button, key release Yellow luminous disc, flashing Ø 60 mm, 24 Vac/dc
		pos. 2	pos. 3	pos. 1			
 grey RAL 7035	 red	1NO	1NC 	CONNECTION BLOCK	ES AC31430 ES 31000 + E2 1PEPZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP01G2V1 + VE BC2PV1	ES AC31433 ES 31000 + E2 1PERZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP01G2V1 + VE BC2PV1	ES AC31436 ES 31000 + E2 1PEBZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP01G2V1 + VE BC2PV1
 grey RAL 7035	 red	1NO	1NC  SELF-MONITORED	CONNECTION BLOCK	ES AC31431 ES 31000 + E2 1PEPZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP01S2V1 + VE BC2PV1	ES AC31434 ES 31000 + E2 1PERZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP01S2V1 + VE BC2PV1	ES AC31437 ES 31000 + E2 1PEBZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP01S2V1 + VE BC2PV1
 grey RAL 7035	 red	1NO	2NC 	CONNECTION BLOCK	ES AC31432 ES 31000 + E2 1PEPZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP02G2V1 + VE BC2PV1	ES AC31435 ES 31000 + E2 1PERZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP02G2V1 + VE BC2PV1	ES AC31438 ES 31000 + E2 1PEBZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP02G2V1 + VE BC2PV1

Other combinations on request.

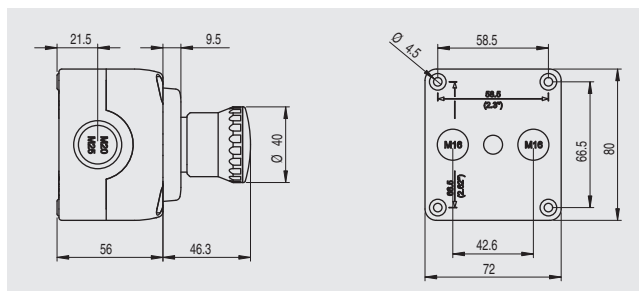
The standard colour of the base for the codes mentioned above is RAL 9005.

→ For the properties of contact blocks and luminous discs, please see the General Catalogue HMI.

Spare caps

Article	Description
 VE TS35RA1	4 spare caps for ES series housing cover. Colour: yellow
 VE TS39RA1	4 spare caps for ES series housing cover. Colour: grey

Dimensions





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