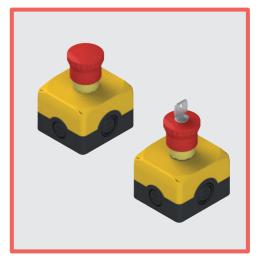
# ES series housings



#### 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:



## **Technical data**

Housing Material

Material of the screws: Conduit entries:

Emergency stop button Mechanical endurance: Max. actuation frequency: Actuation travel:

General data Protection degree:

Ambient temperature:

Utilization requirements:

Actuating force: Actuating force at limit of travel:

Maximum travel: Tightening torque of the fixing ring:

Self-extinguishing shock-proof polycarbonate with double insulation, UV-resistant and glass fibre reinforced, high shock resistance. Stainless steel 4x knock-out side entries: N°2 M20 - 1/2 NPT, N°2 M20 - 1/2NPT - M25 2x M16 knock-out base entries

300,000 operating cycles 3600 operating cycles/hour 4 mm (NO contact), 4 mm (NC contact) 25 N Push-pull 18.5 N (without contacts) Rotary release, 35 N (without contacts) 9 mm 2 ... 2.5 Nm

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) -25°C ... +80°C Tightening torque of the cover screws: 1 ... 1.4 Nm 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**

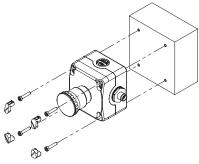
#### Protection degrees IP67 and IP69K

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

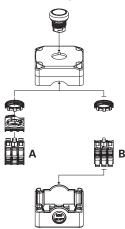
The housings of the EROUND line by Pizzato Elettrica have 4 additional holes on the cover. The holes enable wall fixing from the outside by means of insertion of the screws, without the need to open the cover to access the holes.



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.

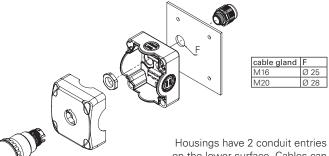
The external fixing of the housings is particularly valuable for already wired housings, since this simplifies the whole installation: you can simply fix the housing and connect the connector that, thanks to the presence of cable entries on the four sides of the housing, can be oriented in the preferred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



on the lower surface. Cables can be connected via this surface, hiding them from view.



#### Complete housing units with emergency stop buttons

Contacts

pos. 3

1NC →

1NC

1NC →

1NO

1NO





ts		Emergency stop button Push-Pull	Emergency stop button rotary release	Emergency stop button, key release
	pos. 1			
	-	ES AC31004 ES 31001 + E2 1PEPZ4531 + E2 CF01G2V1	ES AC31003 ES 31001 + E2 1PERZ4531 + E2 CF01G2V1	ES AC31022 ES 31001+ E2 1PEBZ4531 + E2 CF01G2V1
RED	-	ES AC31081 ES 31001 + E2 1PEPZ4531 + E2 CF01S2V1	ES AC31082 ES 31001 + E2 1PERZ4531 + E2 CF01S2V1	ES AC31083 ES 31001+ E2 1PEBZ4531 + E2 CF01S2V1
	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
		ES AC31010	ES AC31006	ES AC31011

ES 31001 + E2 1PEPZ4531 + E2 CF01G2V1 + E2 CF10G2V1 ES AC31146 ES 31001 + E2 1PEPZ4531 + E2 CF01G2V1 + E2 CF01G2V1 + E2 CF10G2V1

ES AC31021

ES 31001 + E2 1PEBZ4531 + E2 CF01G2V1 + E2 CF10G2V1

ES AC31024 ES 31001 + E2 1PEBZ4531 + E2 CF01G2V1 + E2 CF01G2V1 + E2 CF10G2V1

Other combinations on request

Housing

cover

colour

yellow RAL 1003

yellow RAL 1003

yellow RAL 1003

yellow RAL 1003

vellow RAL 1003

Housing

cover

colour

grey RAL 7035

grey RAL 7035

grey RAL 7035

Actuator

design

and colour

red

red

red

red

red

Actuator

design

and colour

red

red

red

pos. 2

1NO

1NO

pos. 2

1NC

1NC

 $\overline{\bigcirc}$ 

1NC

 $\ominus$ 

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

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



Emergency stop button Push-Pull Yellow luminous disc, flashing Ø 60 mm, 24 Vac/dc

ES AC31430 ES 31000 + E2 1PEPZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP01G2V1 + VE BC2PV1

ES AC31431 ES 31000 + E2 1PEPZ4531 + VE DL1A5L13 + E2 CP10G2V1 +

E2 CP01S2V1 + VE BC2PV1 ES AC31432

ES 31000 + E2 1PEPZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP02G2V1 + VE BC2PV1



Emergency stop button rotary release Yellow luminous disc, flashing Ø 60 mm, 24 Vac/dc

ES AC31433 ES 31000 + E2 1PERZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP01G2V1 + VE BC2PV1

ES AC31434 ES 31000 + E2 1PERZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP01S2V1 + VE BC2PV1

ES AC31435 ES 31000 + E2 1PERZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP02G2V1 + VE BC2PV1



Emergency stop button, key release Yellow luminous disc, flashing Ø 60 mm, 24 Vac/dc

ES AC31436 ES 31000 + E2 1PEBZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP01G2V1 + VE BC2PV1

ES AC31437 ES 31000 + E2 1PEBZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP01S2V1 + VE BC2PV1

ES AC31438 ES 31000 + E2 1PEBZ4531 + VE DL1A5L13 + E2 CP10G2V1 + E2 CP02G2V1 + VE BC2PV1

Other combinations on request

1NO

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.

Contacts

pos. 3

1NC →

1NC

 $\odot$ 

2NC

 $\odot$ 

RED

pos. 1

TION

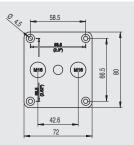
CONNE

TION

CONNE

TION BLOCK





General Catalogue Safety 2023-2024

Accessories See page 419

🕩 pizzato

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

274

9



ES 31001 + E2 1PERZ4531 + E2 CF01G2V1 + E2 CF01G2V1 + E2 CF10G2V1