

Позиционные переключатели с открытой конструкцией

Технические характеристики

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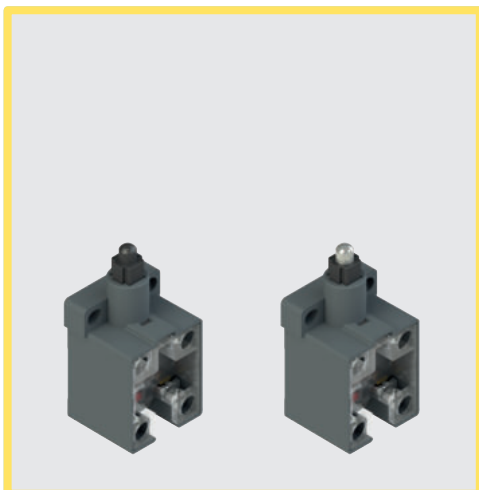
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Main features

- Technopolymer housing
- Protection degree IP20 (terminals), IP40 (contacts)
- 14 contact blocks available
- Actuators with plastic or metal plunger
- Contact block with positive opening ☺
- For internal use in PA, PX, PC series foot switches

Quality marks:



IMQ approval: CA02.06217
 UL approval: E131787
 CCC approval: 2021000305000102
 EAC approval: RU C-IT.YT03.B.00035/19

Technical data

Housing

Housing made of glass fibre reinforced technopolymer, self-extinguishing and shock-proof
 Protection degree acc. to EN 60529: IP20 (terminals)
 IP40 (contacts)

General data

Ambient temperature: -40°C ... +80°C
 Safety parameter B_{10D}: 40,000,000 for NC contacts
 Max. actuation frequency: 3600 operating cycles/hour
 Mechanical endurance: 20 million operating cycles
 Max. actuation speed: 0.5 m/s
 Min. actuation speed: 1 mm/s (slow action)
 0.01 mm/s (snap action)

Tightening torque of the terminal screws:

0.6 ... 0.8 Nm

Wire cross-sections and

wire stripping lengths:

see page 249 of the General Catalogue Detection

In compliance with standards:

IEC 60947-5-1, EN 60947-5-1, EN 60947-1, IEC 60204-1, EN 60204-1, EN ISO 14119, EN ISO 12100, IEC 60529, EN 60529, EN IEC 63000, UL 508, CSA C22.2 No. 14, GB/T14048.5.

Approvals:

UL 508, CSA C22.2 No. 14, EN 60947-1, EN 60947-5-1.

Compliance with the requirements of:

Low Voltage Directive 2014/35/EU,
 EMC Directive 2014/30/EU,
 RoHS Directive 2011/65/EU.

Positive contact opening in conformity with standards:

IEC 60947-5-1, EN 60947-5-1.

Installation for safety applications:

Use only switches marked with the ☺ symbol beside the product code. Always connect the safety circuit to the **NC contacts** (normally closed contacts: 11-12, 21-22 or 31-32) as required by **EN ISO 14119, paragraph 5.4** for specific interlock applications and **EN ISO 13849-2 table D3** (well-tries components) and **D.8** (fault exclusions) for safety applications in general. Actuate the switch **at least up to the positive opening travel** reported in the travel diagrams. Actuate the switch **at least with the positive opening force**, reported in brackets below each article, next to the minimum force value.

⚠ If not expressly indicated in this chapter, for correct installation and utilization of all articles see chapter Utilization requirements from page 227 to page 242 of the General Catalogue Detection .

Electrical data

Thermal current (I_{th}): 10 A
 Rated insulation voltage (U_i): 500 Vac 600 Vdc
 Rated impulse withstand voltage (U_{imp}): 6 kV
 Conditional short circuit current: 1000 A acc. to EN 60947-5-1
 Protection against short circuits: type aM fuse 10 A 500 V
 Pollution degree: 3

Utilization category

Alternating current: AC15 (50-60 Hz)
 U_e (V) 250 400 500
 I_e (A) 6 4 1
 Direct current: DC13
 U_e (V) 24 125 250
 I_e (A) 3 0.55 0.3

Features approved by IMQ

Rated insulation voltage (U_i):
 500 Vac (for contact blocks [B] 5, 6, 7, 9, 10, 12, 13, 14, 15, 17, 18, 19, 66, 67)
 400 Vac (for contact blocks [B] 11, 37)
 Conventional free air thermal current (I_{th}): 10 A
 Protection against short circuits: type aM fuse 10 A 500 V
 Rated impulse withstand voltage (U_{imp}): 6 kV
 Protection degree of the housing: IP20
 MV terminals (screw terminals)
 Pollution degree: 3
 Utilization category: AC15
 Operating voltage (U_e): 400 Vac (50/60 Hz)
 Operating current (I_e): 4 A
 Forms of the contact element: Zb, Y+Y, X+X, Y, X
 Positive opening contacts on contact blocks [B] 5, 6, 7, 9, 11, 13, 14, 17, 18, 19, 37, 66
 In compliance with standards: EN 60947-1, EN 60947-5-1, fundamental requirements of the Low Voltage Directive 2014/35/EU.

Please contact our technical department for the list of approved products.

Features approved by UL

Electrical ratings: Q300 (69 VA, 125-250 Vdc)
 A600 (720 VA, 120-600 Vac)
 Housing features: open type.
 For all contact blocks use 60 or 75°C copper (Cu) conductors, rigid or flexible, wire size 12, 14 AWG.
 Tightening torque for terminal screws of 7.1 lb in (0.8 Nm).

Please contact our technical department for the list of approved products.



Description



Contact block with captive screws, finger protection and self-lifting clamping screw plates. Provided with positive opening NC contacts for safety applications. Provided with twin bridge contacts, they are particularly suitable for high-reliability applications. Suitable for installation inside PA, PX and PC series foot switches.

Dimensional drawings

All values in the drawings are in mm

Contact type:

- R** = snap action
- L** = slow action
- LO** = slow action, make before break
- LS** = slow action, shifted
- LV** = slow action, shifted and spaced
- LA** = slow action, close

Technopolymer plunger

Metal plunger

Legend

- Closed contact
- Open contact
- Positive opening travel acc. to IEC 60947-5-1
- Pressing the switch
- Releasing the switch

Contact type	Technopolymer plunger		Metal plunger		Contact diagrams	Travel diagram
	Article	Contacts	Article	Contacts		
R	VF B501	1NO+1NC	VF B502	1NO+1NC		
L	VF B601	1NO+1NC	VF B602	1NO+1NC		
LO	VF B701	1NO+1NC	VF B702	1NO+1NC		
L	VF B901	2NC	VF B902	2NC		
L	VF B1001	2NO	VF B1002	2NO		
R	VF B1101	2NC	VF B1102	2NC		
R	VF B1201	2NO	VF B1202	2NO		
LV	VF B1301	2NC	VF B1302	2NC		
LS	VF B1401	2NC	VF B1402	2NC		
LS	VF B1501	2NO	VF B1502	2NO		
LA	VF B1801	1NO+1NC	VF B1802	1NO+1NC		
L	VF B3701	1NO+1NC	VF B3702	1NO+1NC		
L	VF B6601	1NC	VF B6602	1NC		
L	VF B6701	1NO	VF B6702	1NO		
Max. speed	0,5 m/s		0,5 m/s			
Actuating force	8 N (20 N		8 N (20 N			

Code structure

article options
VF B501-G

Contact blocks

5	1NO+1NC, snap action
6	1NO+1NC, slow action
7	1NO+1NC, slow action, make before break
9	2NC, slow action
10	2NO, slow action
11	2NC, snap action
12	2NO, snap action
...	...

Contact type

	silver contacts (standard)
G	silver contacts with 1 µm gold coating
G1	silver contacts with 2.5 µm gold coating

Actuators

01	with technopolymer plunger (standard)
02	with metal plunger

EROUND line introduction

Design and maximum reliability

Pizzato Elettrica's innovative EROUND control and signalling devices combine elegance and functionality in a single product.

The ergonomic design allows a comfortable and easy use of the devices. The details have been carefully designed giving the products a pleasant appearance and making them suitable for applications also on well designed machinery.

The devices of the EROUND line, thanks to their design and functionality, guarantee maximum reliability, and are suitable for any type of application.



A complete range of products



Designed for improving the functions of our existing products already present in the market, the control and signalling devices of the EROUND line are provided with technical features that make this series one of the most complete in the industrial safety sector.

Thanks to the design, the care for details and the elegance of the product combined with its maximum safety and reliability, this series is one of the most cutting-edge on the market.

Safety at a glance



Thanks to the chosen shapes, the employed materials and the use of high luminosity LEDs, the illuminated devices of the EROUND line guarantee greater safety increasing thus the signalling and visibility level in any situation.

Laser engraving

Pizzato Elettrica introduced a laser engraving system for the control and signalling devices of the EROUND line, where the use of pad printing has been eliminated to guarantee that the marking on the product is indelible.

Furthermore, in case of machineries subjected to intense washing with high pressure water jets, there is no risk of inscriptions becoming illegible over time.



Maximum protection

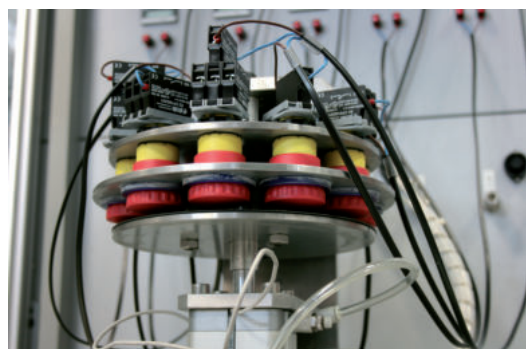
All control and signalling devices of the EROUND line are provided with an IP67 protection degree. This makes it possible to install them in any type of application, also in the most difficult environment conditions.

Most devices, not only have an IP67 protection degree, but have also passed the test proving their IP69K protection degree according to the prescriptions established by the ISO 20653 standard.

Therefore they are suitable for use in machineries subjected to intense washing with high pressure and high temperature water jets and for any condition or environment where a particular attention for cleanness and hygiene is required.



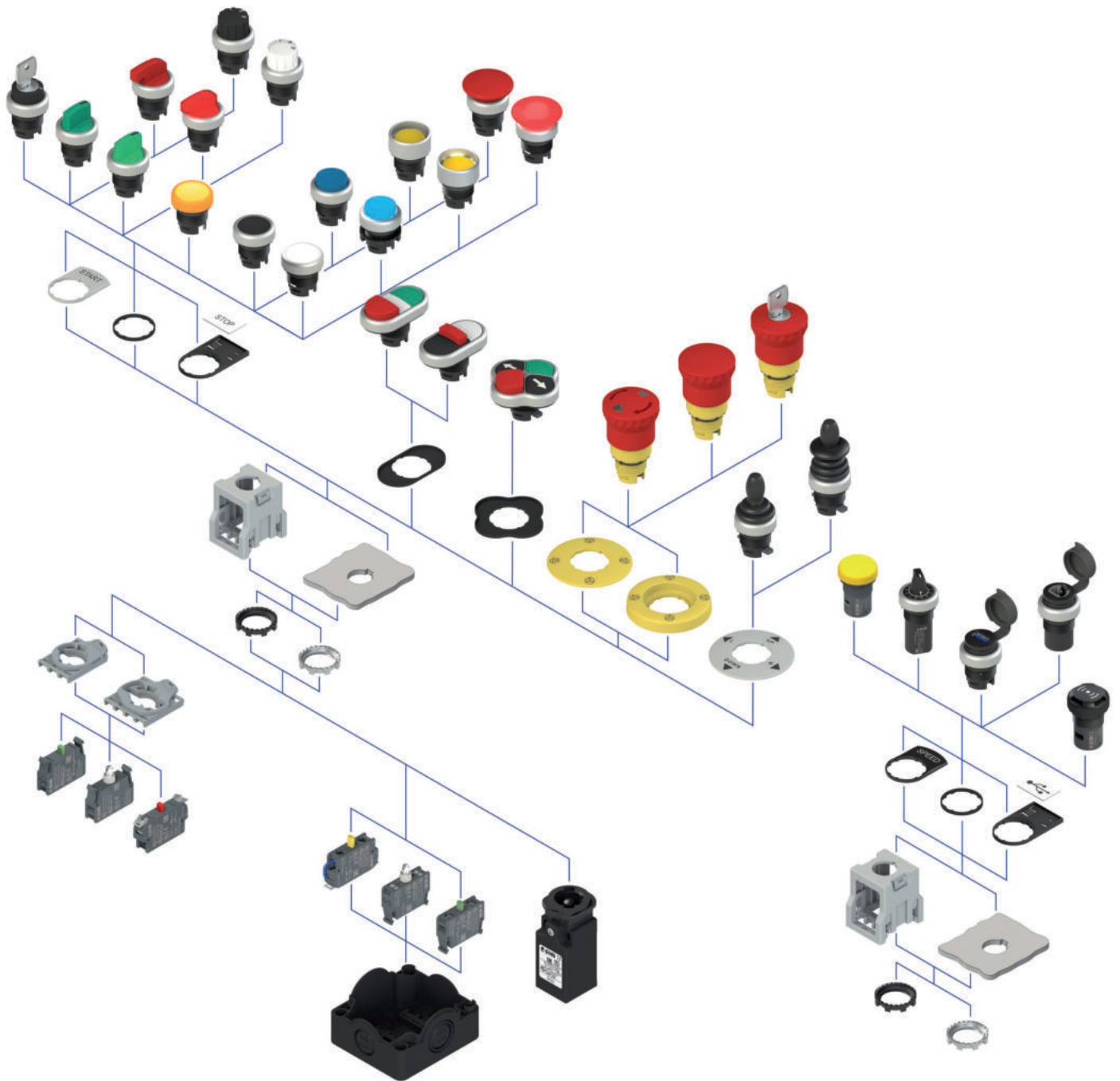
Guaranteed resistance



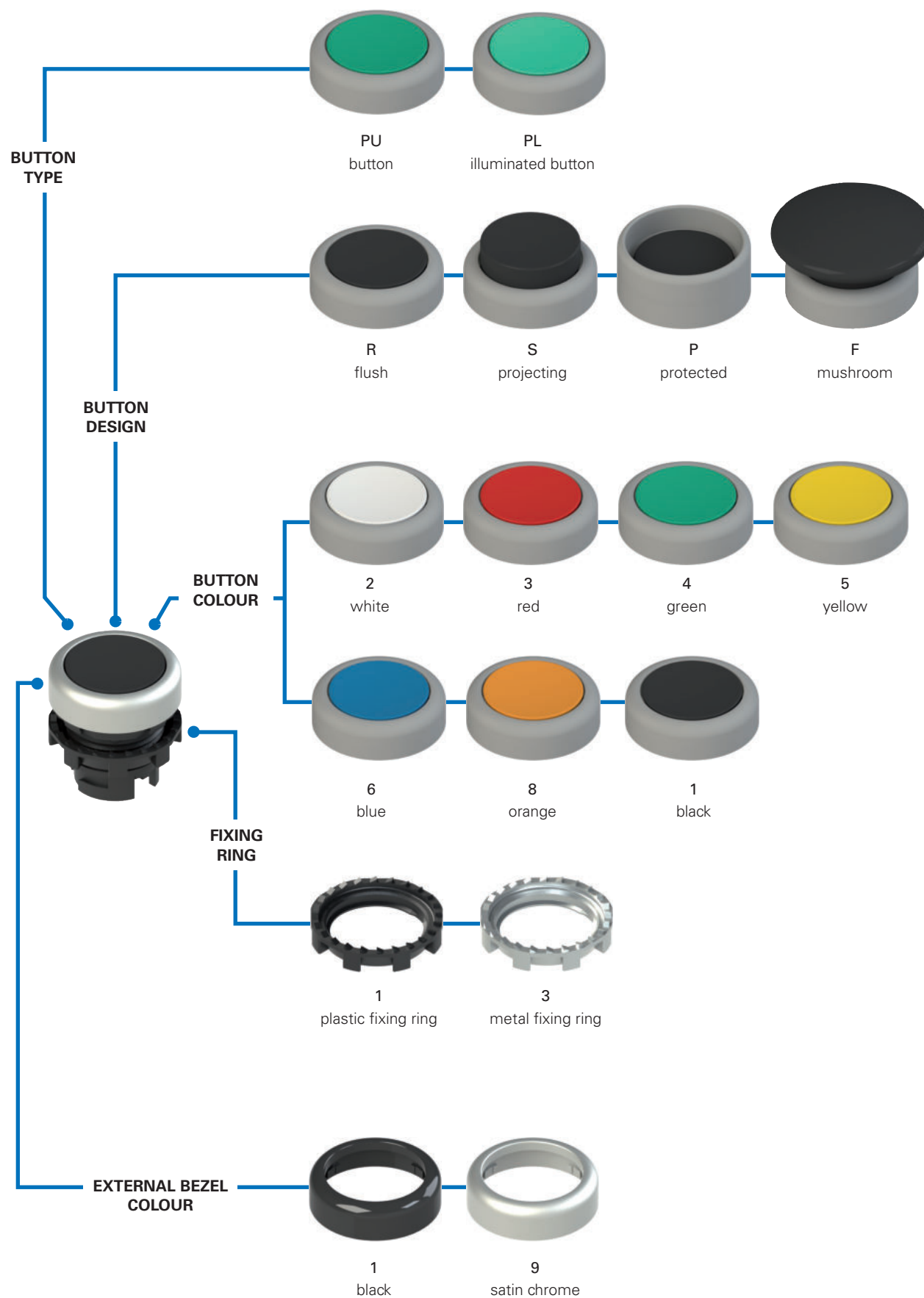
Pizzato Elettrica has tested the control and signalling devices of the EROUND line according to the specific tests of the EN 60947-5-1 standard.

The particular design and the choice of employed materials made it possible to achieve considerable mechanical durability, which is expressed in number of cycles the articles have been subjected to: among the various tested products, the contact blocks reached and exceeded 20 million cycles, the buttons 15 million cycles, and the emergency stop buttons 300,000 cycles.

EROUND line selection diagram



Selection diagram



Code structure for buttons

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

article		options	
E2 1PU2R1210		-T6	
Fixing ring and shaped ring 1 plastic fixing ring (standard) 2 plastic fixing ring and shaped ring 3 metal fixing ring 4 metal fixing ring and shaped ring		Ambient temperature -25°C ... +80°C (standard), spring-return button -25°C ... +50°C (standard), maintained button T6 -40°C ... +80°C spring-return button -40°C ... +50°C maintained button	
Button function 1 maintained 2 spring-return (standard) 4 spring-return for 4-slot base		Button engraving 0 no engraving L1 O L2 I Other engravings on request. See page 165.	
Button design R flush S projecting P protected F mushroom		External bezel colour 1 black 9 satin chrome	
Button colour 0 without lens 1 black 2 white 3 red 4 green 5 yellow 6 blue 8 orange		Button diameter 2 Ø 20 mm 4 Ø 36 mm (mushroom only)	

Code structure for illuminated buttons

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

article		options	
E2 1PL2R2210		-T6	
Fixing ring and shaped ring 1 plastic fixing ring (standard) 2 plastic fixing ring and shaped ring 3 metal fixing ring 4 metal fixing ring and shaped ring		Ambient temperature -25°C ... +80°C (standard), spring-return button -25°C ... +50°C (standard), maintained button T6 -40°C ... +80°C spring-return button -40°C ... +50°C maintained button	
Button function 1 maintained 2 spring-return (standard)		Button engraving 0 no engraving L1 O L2 I Other engravings on request. See page 165.	
Button design R flush S projecting P protected F mushroom		External bezel colour 1 black 9 satin chrome	
Button colour 0 without lens 2 white 3 red 4 green 5 yellow 6 blue 8 orange		Button diameter 2 Ø 20 mm 4 Ø 36 mm (mushroom only)	



Main features

- Protection degrees IP67 and IP69K
- 4 different shapes
- 7 colours available
- -40°C versions
- Maintained or spring-return version

Quality marks:



IMQ approval: CA02.04805
 UL approval: E131787
 EAC approval: RU C-IT.YT03.B.00035/19

Technical data

General data

Protection degree:	IP67 acc. to EN 60529 IP69K acc. to ISO 20653
Ambient temperature:	-25°C ... +80°C (standard) -40°C ... +80°C (T6 option)
Spring-return button	-25°C ... +50°C (standard) -40°C ... +50°C (T6 option)
Maintained button	30,000,000 (spring-return button) 2,000,000 (maintained button)
Safety parameter B _{10D} :	15 million operating cycles (spring-return button) 1 million operating cycles (maintained button)
Mechanical endurance:	3600 operating cycles/hour
Max. actuation frequency:	3.7 N (without contacts) (spring-return button) 4.4 N (without contacts) (maintained button)
Actuating force at limit of travel:	5 mm
Maximum travel:	2 ... 2.5 Nm
Tightening torque of the fixing ring:	see page 169
Utilization requirements:	

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, UL 508, CSA C22.2 No. 14.

⚠ Installation for safety applications:

Use only contact blocks marked with the symbol ☉. The safety circuit must always be connected to **NC contacts** (normally closed contacts: .1-2)

Compliance with the requirements of:

Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU

Positive contact opening in conformity with standards:

IEC 60947-5-1, EN 60947-5-1.

Features approved by UL

For Use on a Flat Surface of a Type 1, 4X, 12 and 13
 Tightening torque 2.0 Nm

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

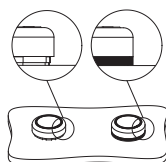
their special design, these devices are suitable for use in equipment subjected to cleaning with high pressure hot water jets. These devices meet the IP69K test requirements according to ISO 20653 (water jets with 100 bar and 80°C).

Metal fixing ring



The fixing ring in metal is particularly suitable for those applications which require tighter fitting of the panel-mounted device, such as for example in metal panels having holes without reference notches.

Shaped ring



The shaped ring can be used when no label holder or other devices are applied; it prevents dirt and other residues from settling between the button and the panel or housing.

This turns out to be particularly useful in the sectors where high standards of cleanness and hygiene are required.

Functions

Depending on the type of application, the EROUND line buttons of Pizzato Elettrica are available in two versions: the one with maintained function (once the button is pressed, a second manual intervention is necessary for unlocking) and the one with spring-return function (the button is not maintained locked).



Customisable



In order to satisfy various customer requests and demands, Pizzato Elettrica offers the possibility to customize the control and signalling devices of the EROUND line: the bezels can be requested with different colours (black and satin chrome), whereas the lenses can be customized with a wide range of writings, symbols, and colours.

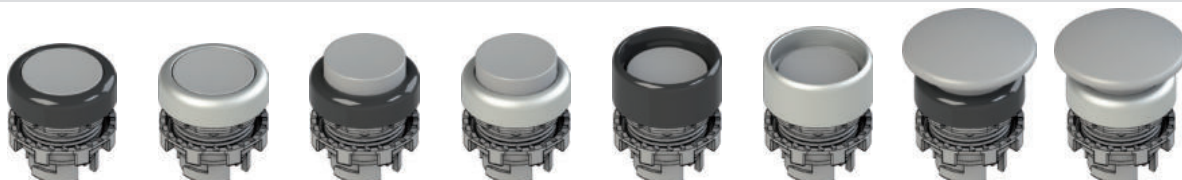
Extended temperature range

-40°C

These devices are also available in a special version suitable for an ambient operating temperature range from -40°C up to +80°C.

They can therefore be used for applications in cold stores, sterilisers and other equipment with low temperature environments. The special materials used to produce these versions retain their characteristics even under these conditions, thereby expanding the installation possibilities.

Selection table for buttons



Colour and engraving actuator	Flush		Projecting		Protected		Mushroom	
	black bezel	satin chr. bezel	black bezel	satin chr. bezel	black bezel	satin chr. bezel	black bezel	satin chr. bezel
 without lens	E2 1PU2R0210	E2 1PU2R0290	Same article, flush button	Same article, flush button	E2 1PU2P0210	E2 1PU2P0290	-	-
 black	E2 1PU2R1210	E2 1PU2R1290	E2 1PU2S1210	E2 1PU2S1290	E2 1PU2P1210	E2 1PU2P1290	E2 1PU2F1410	E2 1PU2F1490
 white	E2 1PU2R2210	E2 1PU2R2290	E2 1PU2S2210	E2 1PU2S2290	E2 1PU2P2210	E2 1PU2P2290	E2 1PU2F2410	E2 1PU2F2490
 red	E2 1PU2R3210	E2 1PU2R3290	E2 1PU2S3210	E2 1PU2S3290	E2 1PU2P3210	E2 1PU2P3290	E2 1PU2F3410	E2 1PU2F3490
 green	E2 1PU2R4210	E2 1PU2R4290	E2 1PU2S4210	E2 1PU2S4290	E2 1PU2P4210	E2 1PU2P4290	E2 1PU2F4410	E2 1PU2F4490
 yellow	E2 1PU2R5210	E2 1PU2R5290	E2 1PU2S5210	E2 1PU2S5290	E2 1PU2P5210	E2 1PU2P5290	E2 1PU2F5410	E2 1PU2F5490
 blue	E2 1PU2R6210	E2 1PU2R6290	E2 1PU2S6210	E2 1PU2S6290	E2 1PU2P6210	E2 1PU2P6290	E2 1PU2F6410	E2 1PU2F6490
 orange	E2 1PU2R8210	E2 1PU2R8290	E2 1PU2S8210	E2 1PU2S8290	E2 1PU2P8210	E2 1PU2P8290	E2 1PU2F8410	E2 1PU2F8490
 red	E2 1PU2R321L1	E2 1PU2R329L1	E2 1PU2S321L1	E2 1PU2S329L1	-	-	E2 1PU2F341L1	E2 1PU2F349L1
 green	E2 1PU2R421L2	E2 1PU2R429L2	E2 1PU2S421L2	E2 1PU2S429L2	E2 1PU2P421L2	E2 1PU2P429L2	E2 1PU2F441L2	E2 1PU2F449L2
 black	E2 1PU2R121L1	E2 1PU2R129L1	E2 1PU2S121L1	E2 1PU2S129L1	-	-	E2 1PU2F141L1	E2 1PU2F149L1
 white	E2 1PU2R221L2	E2 1PU2R229L2	E2 1PU2S221L2	E2 1PU2S229L2	E2 1PU2P221L2	E2 1PU2P229L2	E2 1PU2F241L2	E2 1PU2F249L2

For ordering a maintained button replace 1PU2 with 1PU1 in the respective article code.

Example: E2 1PU2R0210 → E2 1PU1R0210

Selection table for illuminated buttons



Actuator colour and engraving	Flush		Projecting		Protected		Mushroom	
	black bezel	satin chr. bezel	black bezel	satin chr. bezel	black bezel	satin chr. bezel	black bezel	satin chr. bezel
 without lens	E2 1PL2R0210	E2 1PL2R0290	Same article, flush button	Same article, flush button	E2 1PL2P0210	E2 1PL2P0290	-	-
 white	E2 1PL2R2210	E2 1PL2R2290	E2 1PL2S2210	E2 1PL2S2290	E2 1PL2P2210	E2 1PL2P2290	E2 1PL2F2410	E2 1PL2F2490
 red	E2 1PL2R3210	E2 1PL2R3290	E2 1PL2S3210	E2 1PL2S3290	E2 1PL2P3210	E2 1PL2P3290	E2 1PL2F3410	E2 1PL2F3490
 green	E2 1PL2R4210	E2 1PL2R4290	E2 1PL2S4210	E2 1PL2S4290	E2 1PL2P4210	E2 1PL2P4290	E2 1PL2F4410	E2 1PL2F4490
 yellow	E2 1PL2R5210	E2 1PL2R5290	E2 1PL2S5210	E2 1PL2S5290	E2 1PL2P5210	E2 1PL2P5290	E2 1PL2F5410	E2 1PL2F5490
 blue	E2 1PL2R6210	E2 1PL2R6290	E2 1PL2S6210	E2 1PL2S6290	E2 1PL2P6210	E2 1PL2P6290	E2 1PL2F6410	E2 1PL2F6490
 orange	E2 1PL2R8210	E2 1PL2R8290	E2 1PL2S8210	E2 1PL2S8290	E2 1PL2P8210	E2 1PL2P8290	E2 1PL2F8410	E2 1PL2F8490
 red	E2 1PL2R321L1	E2 1PL2R329L1	E2 1PL2S321L1	E2 1PL2S329L1	-	-	E2 1PL2F341L1	E2 1PL2F349L1
 green	E2 1PL2R421L2	E2 1PL2R429L2	E2 1PL2S421L2	E2 1PL2S429L2	E2 1PL2P421L2	E2 1PL2P429L2	E2 1PL2F441L2	E2 1PL2F449L2
 white	E2 1PL2R221L1	E2 1PL2R229L1	E2 1PL2S221L1	E2 1PL2S229L1	-	-	E2 1PL2F241L1	E2 1PL2F249L1
 white	E2 1PL2R221L2	E2 1PL2R229L2	E2 1PL2S221L2	E2 1PL2S229L2	E2 1PL2P221L2	E2 1PL2P229L2	E2 1PL2F241L2	E2 1PL2F249L2

For ordering a maintained button replace 1PL2 with 1PL1 in the respective article code.

Example: E2 1PL2R0210 → E2 1PL1R0210

Complete units with buttons



Colour and engraving actuator	Contacts			Flush	Projecting
	pos. 2	pos. 3	pos. 1	black bezel	black bezel
 black	-	1NO	-	E2 AC-DXBC1204 E2 1PU2R1210 + E2 1BAC11 + E2 CP10G2V1	
 white	-	1NO	-	E2 AC-DXBC1200 E2 1PU2R2210 + E2 1BAC11 + E2 CP10G2V1	
 red	-	1NC ⊖	-	E2 AC-DXBC1208 E2 1PU2R3210 + E2 1BAC11 + E2 CP01G2V1	E2 AC-DXBC1209 E2 1PU2S3210 + E2 1BAC11 + E2 CP01G2V1
 green	-	1NO	-	E2 AC-DXBC1201 E2 1PU2R4210 + E2 1BAC11 + E2 CP10G2V1	
 yellow	-	1NO	-	E2 AC-DXBC1206 E2 1PU2R5210 + E2 1BAC11 + E2 CP10G2V1	
 blue	-	1NO	-	E2 AC-DXBC1207 E2 1PU2R6210 + E2 1BAC11 + E2 CP10G2V1	
 red	-	1NC ⊖	-	E2 AC-DXBC1211 E2 1PU2R321L1 + E2 1BAC11 + E2 CP01G2V1	E2 AC-DXBC1212 E2 1PU2S321L1 + E2 1BAC11 + E2 CP01G2V1
 green	-	1NO	-	E2 AC-DXBC1210 E2 1PU2R421L2 + E2 1BAC11 + E2 CP10G2V1	
 black	-	1NC ⊖	-	E2 AC-DXBC1227 E2 1PU2R121L1 + E2 1BAC11 + E2 CP01G2V1	
 white	-	1NO	-	E2 AC-DXBC1226 E2 1PU2R221L2 + E2 1BAC11 + E2 CP10G2V1	

Other combinations on request.

→ For data regarding contact blocks and LED units, please see the respective chapters.

Complete units with illuminated buttons



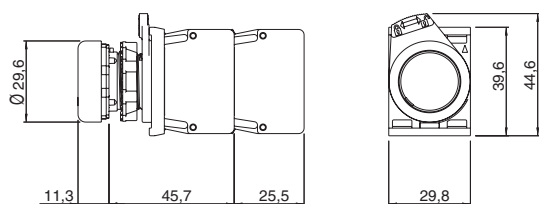
Colour and engraving actuator	Contacts			Flush
	pos. 2	pos. 3	pos. 1	black bezel
 white	1NC ⊖	LED	1NO	E2 AC-DXBC0400 E2 1PL2R2210 + E2 1BAC11 + E2 CP01G2V1 + E2 LP1A2V1 + E2 CP10G2V1
 red	1NC ⊖	LED	1NO	E2 AC-DXBC0402 E2 1PL2R3210 + E2 1BAC11 + E2 CP01G2V1 + E2 LP1A3V1 + E2 CP10G2V1
 green	1NC ⊖	LED	1NO	E2 AC-DXBC0401 E2 1PL2R4210 + E2 1BAC11 + E2 CP01G2V1 + E2 LP1A4V1 + E2 CP10G2V1
 yellow	1NC ⊖	LED	1NO	E2 AC-DXBC0404 E2 1PL2R5210 + E2 1BAC11 + E2 CP01G2V1 + E2 LP1A2V1 + E2 CP10G2V1
 blue	1NC ⊖	LED	1NO	E2 AC-DXBC0403 E2 1PL2R6210 + E2 1BAC11 + E2 CP01G2V1 + E2 LP1A6V1 + E2 CP10G2V1

Other combinations on request.

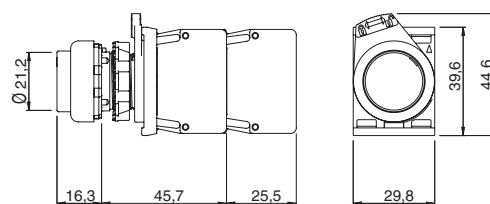
Dimensional drawings

All values in the drawings are in mm

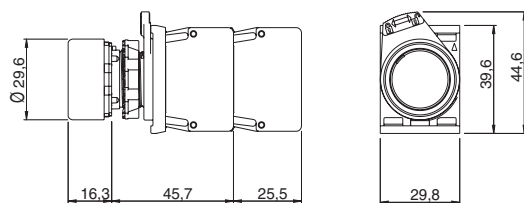
Flush button



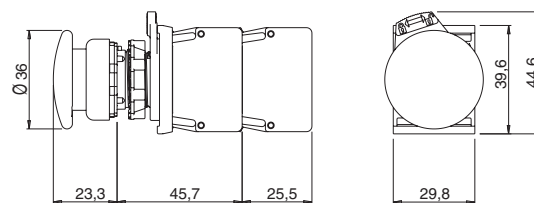
Projecting button



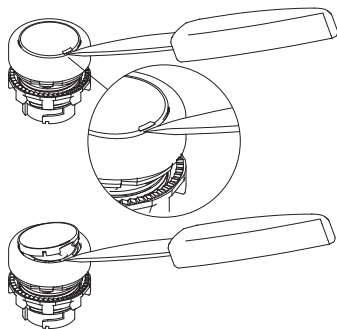
Protected button



Mushroom button



Lenses for E2 •PU buttons and E2 •PL illuminated buttons



The buttons and the illuminated buttons feature replaceable lenses.

To remove the lenses, leverage them with a pointed object near the reference notch on the external diameter of the lens itself.



Lenses without engraving				
Article	Type	Description	Colours	Pieces/ package
VE LP21R10		Lens for flush button, black, without engraving		10
VE LP22R20		Lens for flush button, white, without engraving		10
VE LP22R30		Lens for flush button, red, without engraving		10
VE LP22R40		Lens for flush button, green, without engraving		10
VE LP22R50		Lens for flush button, yellow, without engraving		10
VE LP22R60		Lens for flush button, blue, without engraving		10
VE LP22R80		Lens for flush button, orange, without engraving		10
VE LP22RA0		7 lenses for flush button without engraving, colours: black, white, red, green, yellow, blue and orange	      	1
VE LP21S10		Lens for projecting button, black, without engraving		10
VE LP22S20		Lens for projecting button, white, without engraving		10
VE LP22S30		Lens for projecting button, red, without engraving		10
VE LP22S40		Lens for projecting button, green, without engraving		10
VE LP22S50		Lens for projecting button, yellow, without engraving		10
VE LP22S60		Lens for projecting button, blue, without engraving		10
VE LP22S80		Lens for projecting button, orange, without engraving		10
VE LP22SA0		7 lenses for protruding button without engraving, colours: black, white, red, green, yellow, blue and orange	      	1



Lenses with engraving				
Article	Type	Description	Colours	Pieces/ Pack
VE LP21R1●●●		Lens for flush button, black, with engraving		1
VE LP22R2●●●		Lens for flush button, white, with engraving		1
VE LP22R3●●●		Lens for flush button, red, with engraving		1
VE LP22R4●●●		Lens for flush button, green, with engraving		1
VE LP22R5●●●		Lens for flush button, yellow, with engraving		1
VE LP22R6●●●		Lens for flush button, blue, with engraving		1
VE LP22R8●●●		Lens for flush button, orange, with engraving		1
VE LP21S1●●●		Lens for projecting button, black, with engraving		1
VE LP22S2●●●		Lens for projecting button, white, with engraving		1
VE LP22S3●●●		Lens for projecting button, red, with engraving		1
VE LP22S4●●●		Lens for projecting button, green, with engraving		1
VE LP22S5●●●		Lens for projecting button, yellow, with engraving		1
VE LP22S6●●●		Lens for projecting button, blue, with engraving		1
VE LP22S8●●●		Lens for projecting button, orange, with engraving		1

The black lens cannot be used with illuminated buttons.

For ordering lenses for buttons with marking:

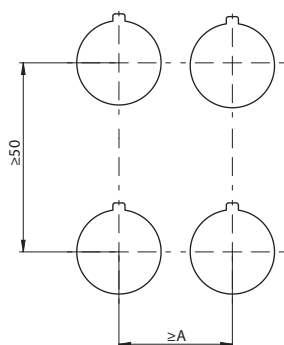
replace the dots ●●● in the article codes with the marking code reported on the table at page 165.

Example: white lens for flush button with "O" engraving.

VE LP22R2●●● → VE LP22R2L1

Minimum distances for installation

All values in the drawings are in mm



3-slot mounting adapter

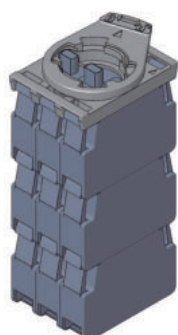
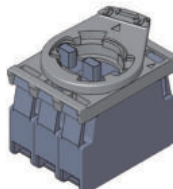
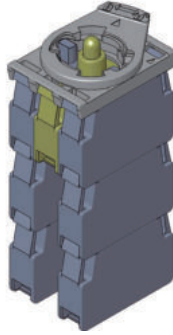
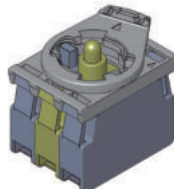
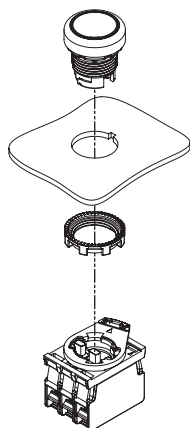
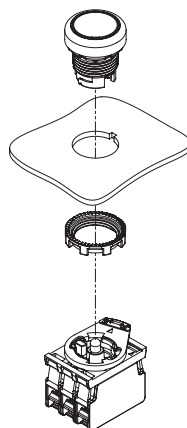
Button type	A
flush	30 mm
projecting	30 mm
protected	30 mm
mushroom	40 mm

4-slot mounting adapter

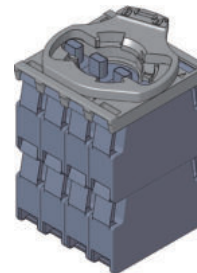
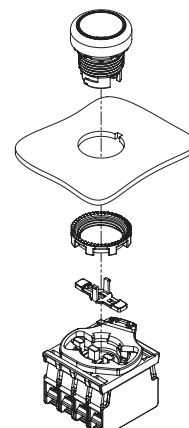
Button type	A
flush	40 mm
projecting	40 mm
protected	40 mm
mushroom	40 mm

Maximum number of contact blocks

3-slot mounting adapter

Spring-return buttons
E2 •PU2•••••maximum number:
9 contact blocks
3 levelsMaintained buttons
E2 •PU1•••••maximum number:
3 contact blocks
1 levelIlluminated spring-
return buttons
E2 •PL2•••••maximum number:
6 contact blocks
3 levelsIlluminated
maintained buttons
E2 •PL1•••••maximum number:
2 contact blocks
1 levelContact
blockLED
unit

4-slot mounting adapter

Spring-return buttons
E2 •PU4•••••maximum number:
8 contact blocks
2 levelsThe mounting of the actuator for 4-slot base must
be carried out after fixing the button.

Closing cap

Packs of 10 pcs.



Article	Description
VE AS1211	Central closing cap for illuminated button E2 •PL••••••••. For 3-slot mounting adapters.

It closes the central hole of the illuminated button and makes it possible to actuate a contact instead of the LED.

Actuator for 4-slot base

Packs of 10 pcs.



Article	Description
VE AS1218	Closed long actuator for 4-slot mounting adapter. It must be installed after fixing the button to the wall. For E2 •PU•••••••• buttons

Shaped ring

Packs of 50 pcs.



Article	Description
VE GP12H1A	Shaped ring for single device

Not applicable in presence of label holders, adapters from Ø 22 to Ø 30 mm, guards or protection caps.

Protection cap

Packs of 10 pcs.



Article	Description
VE CA1A1	Protection cap for flush button (panel width from 1 to 5 mm)
VE CA1B1	Protection cap for single projecting button (panel width from 1 to 5 mm)

Not applicable in presence of shaped rings, label holders, adapters from Ø 22 to Ø 30 mm or protection guards.

Fixing ring

Packs of 20 pcs.



Article	Description
VE GF720A	Metal fixing ring

Accessories

➔ More ACCESSORIES on page 161

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