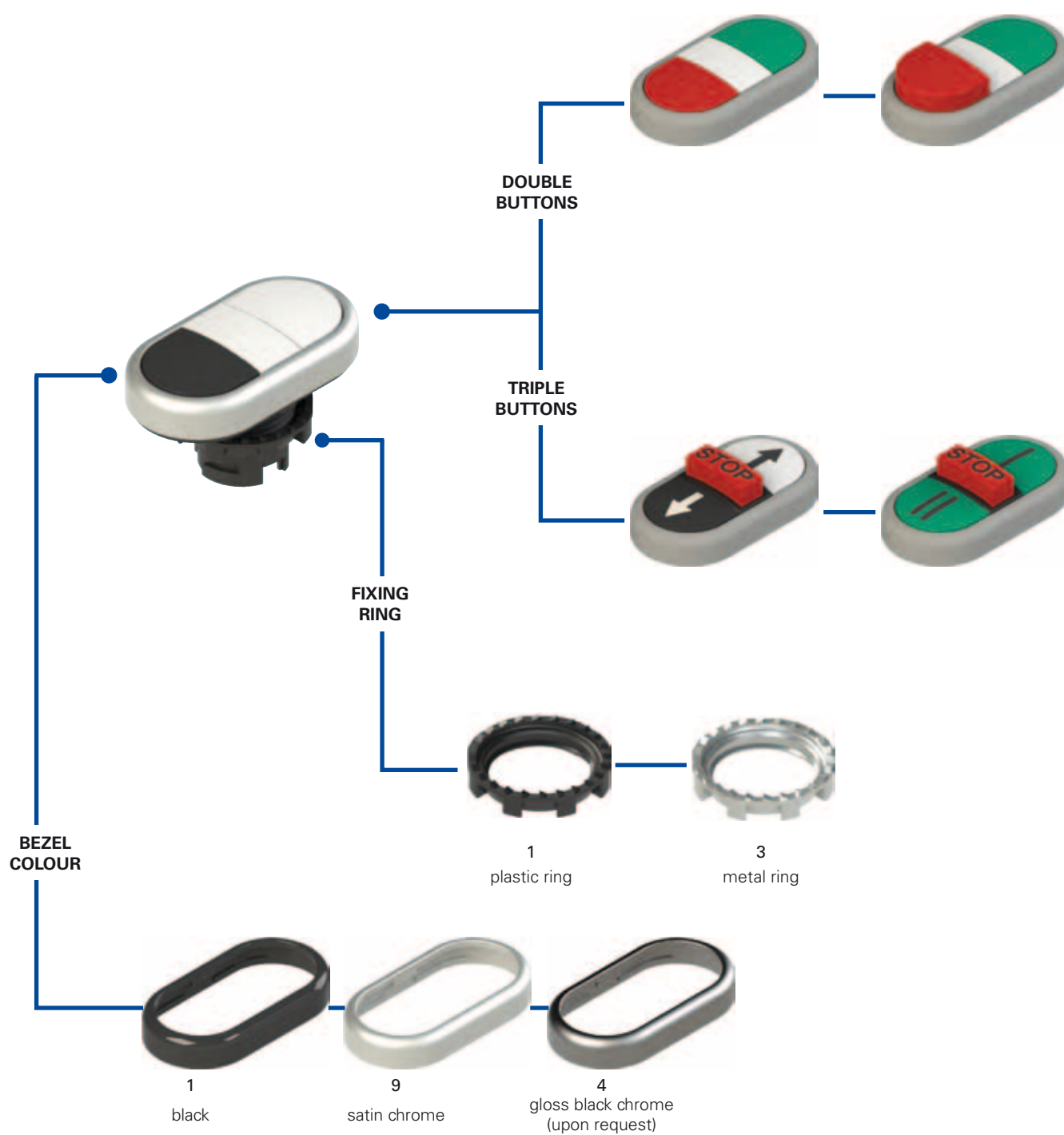


## Selection diagram



## Code structure

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

article options  
**E2 1PDRL10423-T6**

### Fixing ring and shaped ring

<b>1</b>	plastic ring (standard)
<b>2</b>	plastic fixing ring and shaped ring
<b>3</b>	metal ring
<b>4</b>	metal fixing ring and shaped ring

### No. of functions

<b>D</b>	dual button
<b>T</b>	triple button

### Upper and lower button

<b>A</b>	upper projecting, lower flush
<b>B</b>	upper projecting, lower projecting
<b>R</b>	upper flush, lower flush
<b>S</b>	upper flush, lower projecting

### Intermediate element

<b>L</b>	backlit cap (only double buttons)
<b>S</b>	projecting button (only triple buttons)
<b>Q</b>	cap and actuators for 4-slot base (only double buttons)

### Bezel colour

<b>1</b>	black (standard)
<b>9</b>	satin chrome (standard)
<b>4</b>	gloss black chrome (upon request)

### Ambient temperature

	-25°C ... +80°C (standard)
<b>T6</b>	-40°C ... +80°C

### Colours and symbols

	upper button		central cap		lower button	
	colour	symbol	colour	symbol	colour	symbol
<b>0423</b>	green	-	white	-	red	-
<b>0221</b>	white	-	white	-	black	-
<b>0222</b>	white	-	white	-	white	-
<b>0121</b>	black	-	white	-	black	-

Other combinations on request.

	upper button		central cap		lower button	
	colour	symbol	colour	symbol	colour	symbol
<b>AAAD</b>	green	<b>I</b>	white	-	red	<b>O</b>
<b>AAAP</b>	green	<b>START</b>	white	-	red	<b>STOP</b>
<b>AAAA</b>	white	<b>I</b>	white	-	black	<b>O</b>
<b>AAAN</b>	white	<b>START</b>	white	-	black	<b>STOP</b>
<b>AAAB</b>	black	<b>↑</b>	white	-	black	<b>↓</b>
<b>AAAC</b>	black	<b>+</b>	white	-	black	-

Other combinations on request.

	upper button		central button projecting		lower button	
	colour	symbol	colour	symbol	colour	symbol
<b>AAAY</b>	green	<b>I</b>	red	<b>STOP</b>	green	<b>II</b>
<b>AAAZ</b>	green	<b>←</b>	red	<b>STOP</b>	green	<b>→</b>
<b>AABD</b>	white	<b>→</b>	red	<b>STOP</b>	black	<b>←</b>
<b>AABA</b>	green	<b>↑</b>	red	<b>STOP</b>	green	<b>↓</b>
<b>AABE</b>	white	<b>↑</b>	red	<b>STOP</b>	black	<b>↓</b>
<b>AABF</b>	black	<b>↑</b>	red	<b>STOP</b>	black	<b>↓</b>
<b>AABB</b>	green	<b>+</b>	red	<b>STOP</b>	green	-
<b>AABC</b>	white	<b>+</b>	red	<b>STOP</b>	white	-

Other combinations on request.



### Technical data

#### General data

Protection degree:	IP67 acc. to IEC 60529 IP69K acc. to ISO 20653
Ambient temperature:	-25°C ... +80°C
Safety parameters:	
B <sub>10d</sub> :	2,000,000
Mechanical endurance:	1 million operating cycles <sup>1</sup>
Max. actuation frequency:	3600 operating cycles <sup>1</sup> /hour
Actuating force at limit of travel:	4.4 N (without contacts)
Maximum travel:	5 mm
Tightening torque of the fixing ring:	2 ... 2.5 Nm
Utilization requirements:	see page 124

(1) One operation cycle means two movements, one to close and one to open contacts, as defined in EN 60947-5-1.

#### 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 no. 14

#### Main features

- Protection degrees IP67 and IP69K
- Version with 2 or 3 buttons
- - 40°C version
- Version with central backlit cap

#### ⚠ Installation for safety applications:

Use only contact blocks marked with the symbol ⊕. Always connect the safety circuit to the **NC contacts** (normally closed contacts: .1-.2) as stated in standard EN 60947-5-1, encl. K, par. 2.

#### Markings and quality marks:



IMQ approval: CA02.04805  
EAC approval: RU C-IT ДМ94.В.01024

#### In conformity with the requirements of:

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

#### Positive contact opening in conformity with standards:

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

### General data

#### Button profile

The new EROUND line double and triple buttons are available in two profiles in order to suit any kind of application: projecting and flush. The possibility to choose shapes, colours and symbols allows various code combinations for buttons.

#### Illuminated version

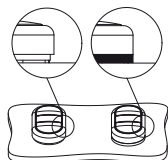
For double buttons, the version with central backlit cap is available.

#### 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 holders or other devices are applied; it prevents dirt and other residues from settling between the button and the panel or box.

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

#### Customisable



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

#### Protection degrees IP67 and IP69K

**IP69K**  
**IP67**

These devices are designed to be used in the toughest environmental conditions and they pass the IP67 immersion test acc. to IEC 60529. They can therefore be used in all environments where the maximum protection of the housing is required. Special measures also allow devices to be used even in machines which are subjected to washing with high pressure warm water jets. In fact these devices pass the IP69K test according to ISO 20653, using jets of water to 100 atmospheres at a temperature of 80°C.

#### Extended temperature range








**-40°C**

This range of switches is also available in a special version with an ambient operating temperature range of -40°C to +80°C.

They can be used for applications in cold stores, sterilisers and other devices with low temperature environments. Special materials that have been used to realize these versions, maintain unchanged their features also in these conditions, widening the installation possibilities.

## Selection table for double buttons







Button colour and engraving		upper button flush central cap flush lower button flush		upper button flush central cap flush lower button projecting	
		black bezel	satin chrome bezel	black bezel	satin chrome bezel
	green button white cap, illuminated red button "I"	E2 1PDRL10423	E2 1PDRL90423	E2 1PDSL10423	E2 1PDSL90423
	green button white cap, illuminated "O" red button "START"	E2 1PDRL1AAAD	E2 1PDRL9AAAD	E2 1PDSL1AAAD	E2 1PDSL9AAAD
	green button white cap, illuminated "STOP"	E2 1PDRL1AAAP	E2 1PDRL9AAAP	E2 1PDSL1AAAP	E2 1PDSL9AAAP
	white button white cap, illuminated black button "I"	E2 1PDRL10221	E2 1PDRL90221	E2 1PDSL10221	E2 1PDSL90221
	white button white cap, illuminated "O" black button "START"	E2 1PDRL1AAAA	E2 1PDRL9AAAA	E2 1PDSL1AAAA	E2 1PDSL9AAAA
	white button white cap, illuminated "STOP"	E2 1PDRL1AAAN	E2 1PDRL9AAAN	E2 1PDSL1AAAN	E2 1PDSL9AAAN
	black button white cap, illuminated black button "I"	E2 1PDRL1AAAB	E2 1PDRL9AAAB	E2 1PDSL1AAAB	E2 1PDSL9AAAB

Other combinations on request.

Items with code on **green** background are stock items





## Selection table for triple buttons



Button colour and engraving		upper button flush central button projecting lower button flush	
		black bezel	satin chrome bezel
	"I" green button "STOP" red button "II"	E2 1PTRS1AAAY	E2 1PTRS9AAAY
	green button "STOP" red button "→"	E2 1PTRS1AAAZ	E2 1PTRS9AAAZ
	white button "STOP" red button "←"	E2 1PTRS1AABD	E2 1PTRS9AABD
	green button "STOP" red button "↓"	E2 1PTRS1AABA	E2 1PTRS9AABA

Other combinations on request.



Button colour and engraving		upper button flush central button projecting lower button flush	
		black bezel	satin chrome bezel
	"↑" white button "STOP" red button "↓"	E2 1PTRS1AABE	E2 1PTRS9AABE
	black button "↑" black button "STOP" red button "↓"	E2 1PTRS1AABF	E2 1PTRS9AABF
	green button "STOP" red button "↑"	E2 1PTRS1AABB	E2 1PTRS9AABB
	white button "STOP" red button "↑"	E2 1PTRS1AABC	E2 1PTRS9AABC

Other combinations on request.

## Complete units with double buttons



Button colour and engraving		Contacts			upper button flush central cap flush lower button projecting
		pos. 2	pos. 3	pos. 1	
	"I" green button			1NO	black bezel
	black cap		-		
	"O" red button	1NC			
					<b>E2 AC-DXBC0601</b> E2 1PDSC1AAAK + E2 1BAC11 + E2 CP01G2V1 + E2 CP10G2V1

Other combinations on request.

## Complete units with triple buttons



Button colour and engraving		Contacts			upper button flush central button projecting lower button flush
		pos. 2	pos. 3	pos. 1	
	"I" green button			1NO	black bezel
	"STOP" red button		1NC		
	"II" green button	1NO			
					<b>E2 AC-DXBC0801</b> E2 1PTRS1AAAY + E2 1BAC11 + E2 CP10G2V1 + E2 CP01G2V1 + E2 CP10G2V1

Other combinations on request.



Button colour and engraving		Contacts			upper button flush central cap flush lower button projecting
		pos. 2	pos. 3	pos. 1	
	"I" green button			1NO	black bezel
	white cap, illuminated		LED		
	"O" red button	1NC			
					<b>E2 AC-DXBC0602</b> E2 1PDSL1AAAD + E2 1BAC11 + E2 CP01G2V1 + E2 LP1A2V1 + E2 CP10G2V1

Other combinations on request.

→ For the characteristics of the contact blocks and LED units, refer to the respective chapters.

## Shroud

10 pcs. packs

	Article	Description
	VE CA1C1	Shroud for double and triple projecting buttons
	VE CA1D1	Shroud for double flush button

With the shroud it is not possible to apply the shaped ring

Items with code on green background are stock items

## Shaped ring

50 pcs. packs

	Article	Description
	VE GP12L1A	Shaped ring for double and triple button E2 1PD..... E2 1PT.....

With the shaped ring, the application of the shroud is not allowed.

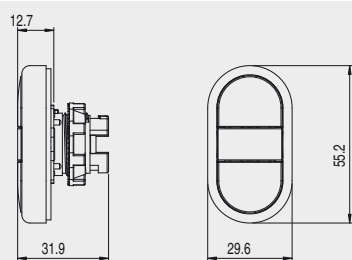
## Accessories

→ More ACCESSORIES on page 121

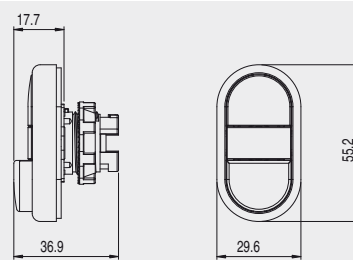
## Dimensions

All measures in the drawings are in mm

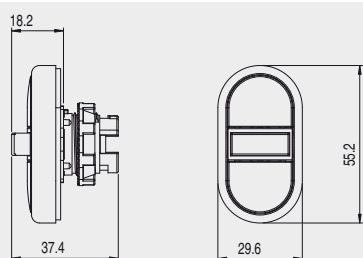
### Flush double button



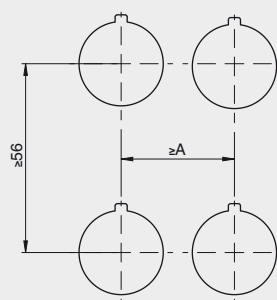
### Projecting double button



### Triple button



### Minimum distances for installation



3-slot mounting adapter  
A=30 mm

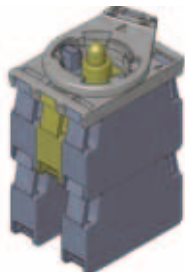
4-slot mounting adapter  
A=40 mm

→ The 2D and 3D files are available at [www.pizzato.com](http://www.pizzato.com)

## Maximum number of contacts

### 3-slot mounting adapter

Double buttons E2 1PD●●●●●●

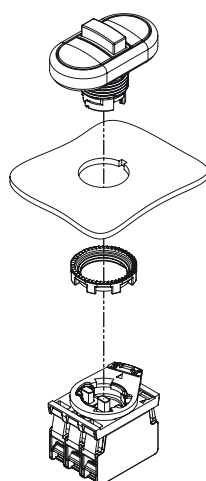


maximum number:  
4 contact blocks  
2 levels

Triple buttons E2 1PT●●●●●●

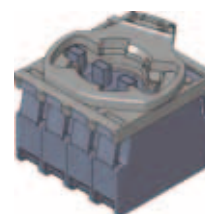


maximum number:  
7 contact blocks  
3 levels

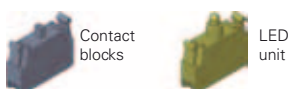
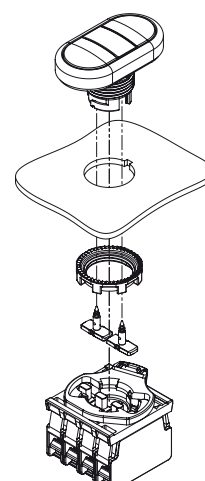


### 4-slot mounting adapter

Double buttons E2 1PD●Q●●●●●



maximum number:  
4 contact blocks  
1 level



The actuators, with the specific button for 4-slot base, can be mounted only after fixing the button.