Selection diagram

PUSHBUTTONS

F
flush upper, flush right,
flush lower, flush left

H
flush upper, projecting right,
flush lower, flush left

L
flush upper, flush right,
projecting lower, flush left

RING COLOUR

1
black

9
satin-finish
chrome

FIXING RING

1
ring in plastic

3
ring in metal

Code structure

E2 1PQFA1QAAA

Fixing ring and shaped ring

1	ring in plastic
3	ring in metal

Pushbuttons

F	flush upper, flush right, flush lower, flush left
H	flush upper, projecting right, flush lower, flush left
L	flush upper, flush right, projecting lower, flush left

Note: Other configurations on request.

Ring colour

1	black (standard)
9	satin-finish chrome (standard)

Colour and markings

	upper pushbutton		right pushbutton		lower pushbutton		left pushbutton	
	colour	symbol	colour	symbol	colour	symbol	colour	symbol
QAAA	black	↑	black	→	black	↓	black	←
QAAB	green	START	black	→	red	STOP	black	←
QAAC	white	START	black	→	black	STOP	black	←
QAAD	green	I	black	→	red	O	black	←
QAAE	white	I	black	→	black	O	black	←
QAAF	white	+	black	→	white	-	black	←
QAAH	black	↑	red	STOP	black	↓	green	START
QAAJ	black	↑	black	STOP	black	↓	white	START
QAAK	black	↑	red	O	black	↓	green	I
QAAL	black	↑	black	O	black	↓	white	I
QAAM	black	↑	white	-	black	↓	white	+
QAAN	black	↑	white	🐢	black	↓	white	🐇

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

Technical data

General

Protection degree:	IP67 according to IEC 60529
Ambient temperature:	-25°C +80°C
Mechanical endurance:	1 million operations cycles[1]
Max operating frequency:	3600 operations cycles[1]/hour
Actuating force at end travel:	6.5 (without contacts)
Maximum travel:	5 mm
Ring driving torque:	2 ... 2.5 Nm
Utilization requirements:	see page 3/98 of general catalog 2013-2014

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

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

Main features
● Protection degree IP67
● Version with projecting pushbutton
● Possibility of customization with symbols

⚠ Installation for safety applications:
Use only switches marked with the symbol ⊖. The safety circuit must always be connected with the **NC contacts** (normally closed contacts: 1-2) as stated in the standard ISO 14119, par. 5.4.

Markings and quality marks:

CE EAC

Approval EAC: RU C-IT ДМ94.В.01024

In conformity with requirements requested by:
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, VDE 0660-206.

Shape

The new EROUND line quadruple pushbuttons are available in two shapes in order to suit any kind of application: projecting and flush. The possibility to choose shapes, colours and symbols allows various codes combinations.

Mechanical endurance

Thanks to their particular design Pizzato Elettrica quadruple pushbuttons guarantee a mechanical endurance of more than 1.000.000 operations.

Protection degree IP67

IP67 This series quadruple pushbuttons all have protection degree IP67, this way guaranteeing a total protection also in hard environmental conditions.

Customizing possibilities

In order to suit the various requests and needs of the customers, Pizzato Elettrica offers the possibility to customize the quadruple with indelible laser inscriptions and symbols.

Fixing ring

A fixing ring in metal is also available in addition to the fixing ring in technopolymer,.
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. Both rings feature a toothed surface which comes into contact with the inside of the panel in order to make it easier for the device to be secured to the actual panel.

Quadruple pushbuttons selection table
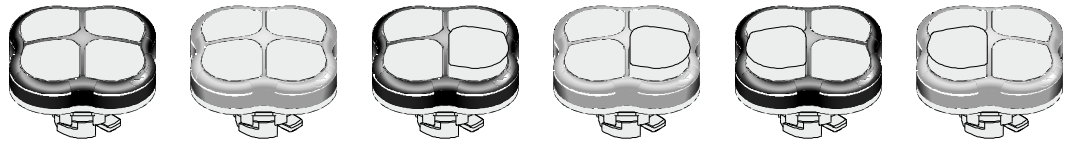
Actuator colour and marking (starting from the top and clockwise)		flush upper pushbutton / flush right pushbutton / flush lower pushbutton / flush left pushbutton		flush upper pushbutton / projecting right pushbutton / flush lower pushbutton / flush left pushbutton		flush upper pushbutton / flush right pushbutton / projecting lower pushbutton / flush left pushbutton	
		black ring	satin chrome ring	black ring	satin chrome ring	black ring	satin chrome ring
	"↑" black pushbutton / "→" black pushbutton / "↓" black pushbutton / "←" black pushbutton	E2 1PQFA1QAAA	E2 1PQFA9QAAA	-	-	-	-
	"START" green pushbutton / "→" black pushbutton / "STOP" red pushbutton / "←" black pushbutton	E2 1PQFA1QAAB	E2 1PQFA9QAAB	-	-	E2 1PQLA1QAAB	E2 1PQLA9QAAB
	"START" white pushbutton / "→" black pushbutton / "STOP" black pushbutton / "←" black pushbutton	E2 1PQFA1QAAC	E2 1PQFA9QAAC	-	-	E2 1PQLA1QAAC	E2 1PQLA9QAAC
	"I" green pushbutton / "→" black pushbutton / "O" red pushbutton / "←" black pushbutton	E2 1PQFA1QAAD	E2 1PQFA9QAAD	-	-	E2 1PQLA1QAAD	E2 1PQLA9QAAD
	"I" white pushbutton / "→" black pushbutton / "O" black pushbutton / "←" black pushbutton	E2 1PQFA1QAAE	E2 1PQFA9QAAE	-	-	E2 1PQLA1QAAE	E2 1PQLA9QAAE
	"+" white pushbutton / "→" black pushbutton / "-" white pushbutton / "←" black pushbutton	E2 1PQFA1QAAF	E2 1PQFA9QAAF	-	-	-	-
	"↑" black pushbutton / "STOP" red pushbutton / "↓" black pushbutton / "START" green pushbutton	E2 1PQFA1QAAH	E2 1PQFA9QAAH	E2 1PQHA1QAAH	E2 1PQHA9QAAH	-	-
	"↑" black pushbutton / "STOP" black pushbutton / "↓" black pushbutton / "START" white pushbutton	E2 1PQFA1QAAJ	E2 1PQFA9QAAJ	E2 1PQHA1QAAJ	E2 1PQHA9QAAJ	-	-
	"↑" black pushbutton / "O" red pushbutton / "↓" black pushbutton / "I" green pushbutton	E2 1PQFA1QAAK	E2 1PQFA9QAAK	E2 1PQHA1QAAK	E2 1PQHA9QAAK	-	-
	"↑" black pushbutton / "O" black pushbutton / "↓" black pushbutton / "I" white pushbutton	E2 1PQFA1QAAL	E2 1PQFA9QAAL	E2 1PQHA1QAAL	E2 1PQHA9QAAL	-	-
	"↑" black pushbutton / "-" white pushbutton / "↓" black pushbutton / "+" white pushbutton	E2 1PQFA1QAAM	E2 1PQFA9QAAM	-	-	-	-

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

Complete units

Actuator colour and marking (starting from the top and clockwise)	Contacts				flush upper pushbutton flush right pushbutton flush lower pushbutton flush left pushbutton
	pos 3	pos 2	pos 4	pos 1	satin chrome ring
"↑" black pushbutton				1NO	**E2 AC-DXBC2000** E2 1PQFA9QAAA + E2 1BAC21 + E2 CP10G2V1 + E2 CP10G2V1+ E2 CP10G2V1 + E2 CP10G2V1
"→" black pushbutton				1NO	
"↓" black pushbutton			1NO		
"←" black pushbutton	1NO				

| Actuator colour and marking (starting from the top and clockwise)	Contacts				flush upper pushbutton projecting right pushbutton flush lower pushbutton flush left pushbutton
	pos 3	pos 2	pos 4	pos 1	satin chrome ring
"↑" black pushbutton				1NO	**E2 AC-DXBC2001** E2 1PQHA9QAAH + E2 1BAC21 + E2 CP10G2V1 + E2 CP10G2V1+ E2 CP10G2V1 + E2 CP01G2V1
"STOP" red pushbutton				1NC ↻	
"↓" black pushbutton			1NO		
"START" green pushbutton	1NO				

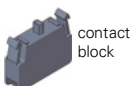## Contacts maximum number

Fixing adapter with 4 positions

Quadruple pushbuttons E2 1PQ●●●●●●●
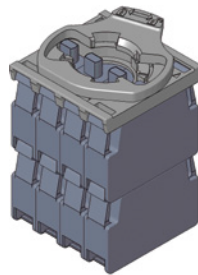
Maximum number:
contacts 8
levels 2
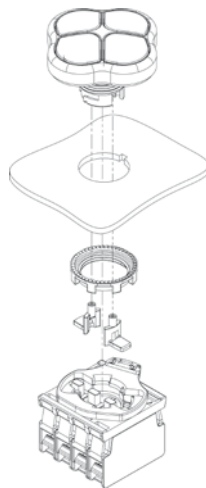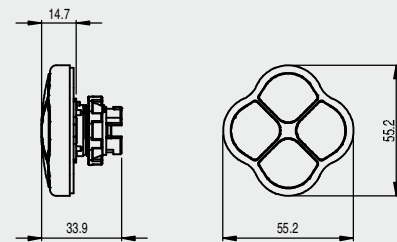

The assembly of the two lateral actuators, supplied with the quadruple button, must be done after the fixing of the pushbutton.
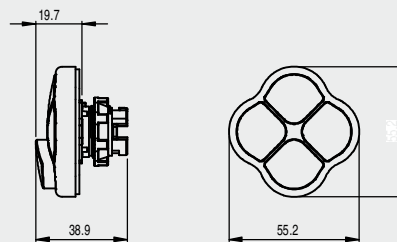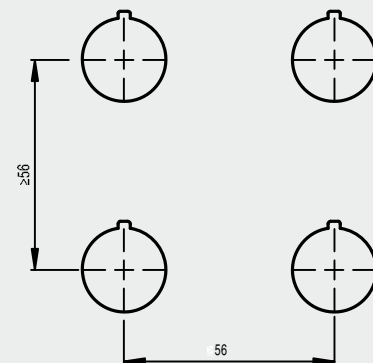

contact block

Dimensions

Flush quadruple pushbutton

14.7
33.9
55.2
55.2

Flush quadruple pushbutton

19.7
38.9
55.2

Assembling minimum distances

≥56
56

All measures in the drawings are in mm

pizzato elettrica