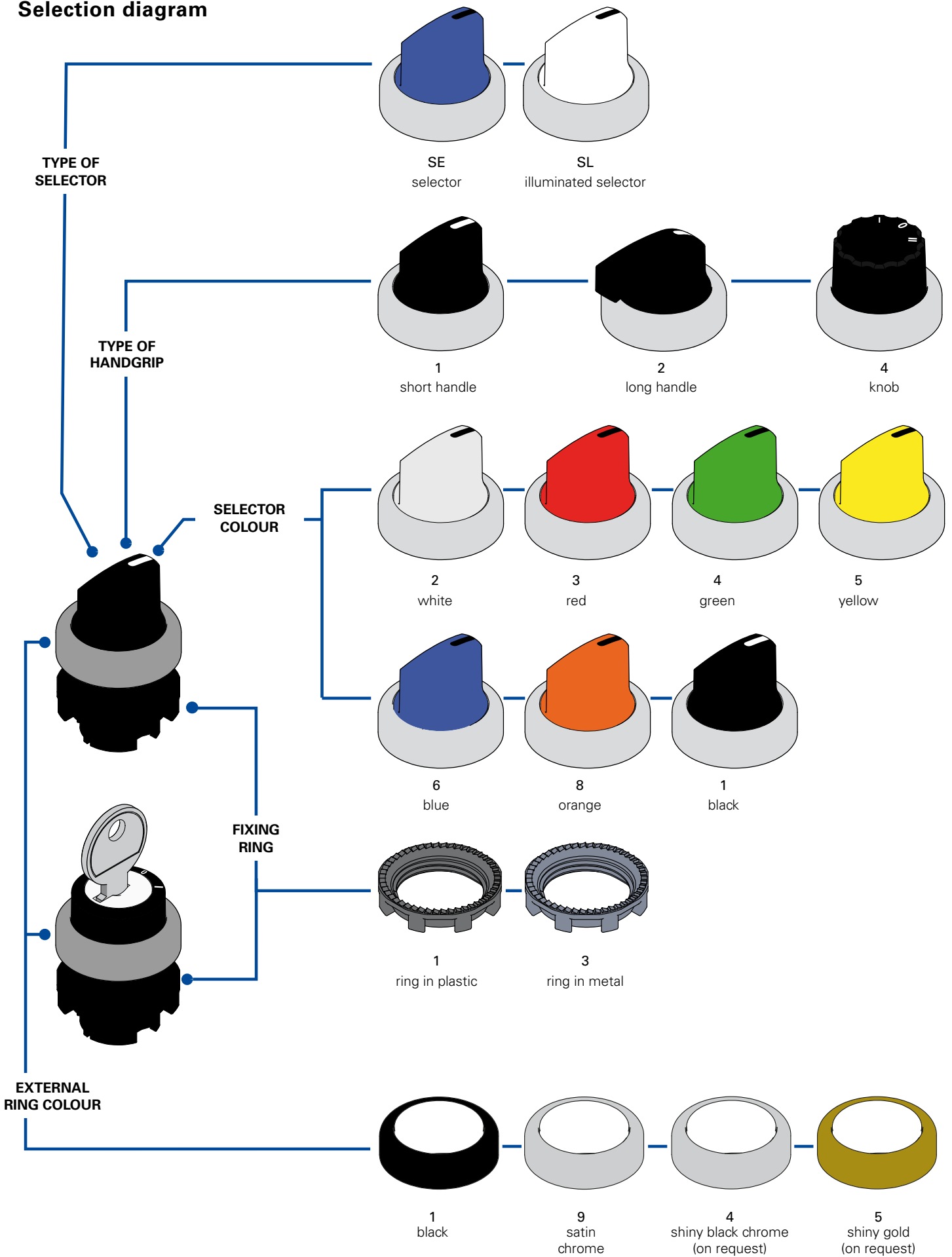


Selection diagram



**Selectors code structure**

**E2 1SE13ACE11AB**












**Fixing ring and shaped ring**

1	ring in plastic
2	ring in plastic and shaped ring
3	ring in metal
4	ring in metal and shaped ring

**Handle**

1	short handle
2	long handle
4	knob

**Positions**

2AV		2AC		3GC	
2EV		2EC			
2FV		3AC			
2FC		3EC			
2BC		3FC			



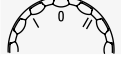
**Cams and actuators**

A	double cam with right wide actuator and left wide actuator (2 positions) for fixing adapter with 3 positions
E	single cam with right wide actuator and left wide actuator (3 positions) for fixing adapter with 3 positions
Q	double cam with right wide actuator and left wide actuator (2 positions) for fixing adapter with 4 positions
R	single cam with right wide actuator and left wide actuator (3 positions) for fixing adapter with 4 positions

**Selector colour**

1	black
2	white
3	red
4	green
5	yellow
6	blue
8	orange

**Marking**

AB		Indication notch (standard)
AC		2 positions knob
AD		3 positions knob

**Ring colour**

1	black (standard)
9	satin-finish chrome (standard)
4	shiny black chrome (on request)
5	shiny gold (on request)

**Illuminated selectors code structure**

**E2 1SL13ACH21AB**












**Fixing ring and shaped ring**

1	ring in plastic
2	ring in plastic and shaped ring
3	ring in metal
4	ring in metal and shaped ring

**Handle**

1	short handle
2	long handle
4	knob

**Positions**

2AV		2AC		3GC	
2EV		2EC			
2FV		3AC			
2FC		3EC			
2BC		3FC			




**Cams and actuators**

D	double cam with right narrow actuator and left narrow actuator (2 positions)
H	single cam with right narrow actuator and left narrow actuator (3 positions)

**Selector colour**

2	white
3	red
4	green
5	yellow
6	blue
8	orange

**Marking**

AB		Indication notch (standard)
AC		2 positions knob
AD		3 positions knob

**Ring colour**

1	black (standard)
9	satin-finish chrome (standard)
4	shiny black chrome (on request)
5	shiny gold (on request)





















**Key selectors code structure**

**E2 1SC2ACA11AA**

**Fixing ring and shaped ring**

1	ring in plastic
2	ring in plastic and shaped ring
3	ring in metal
4	ring in metal and shaped ring

**Positions and key withdrawal**

2AV		3BC		3LC	
2BV		3CC		3MC	
2CV		3DC		3NC	
2DV		3EC		3PC	
2AC		3FC		3QC	
2BC		3GC		3RC	
3AC		3HC			




**Cams and actuators**

A	double cam with right wide actuator and left wide actuator (2 positions) for fixing adapter with 3 positions
E	single cam with right wide actuator and left wide actuator (3 positions) for fixing adapter with 3 positions
Q	double cam with right wide actuator and left wide actuator (2 positions) for fixing adapter with 4 positions
R	single cam with right wide actuator and left wide actuator (3 positions) for fixing adapter with 4 positions

**Selector colour**




1	black
---	-------

**Marking**

AA	without marking (standard)	
AC		2 positions selectors
AD		3 positions selectors
AE		V selectors

**Ring colour**

1	black (standard)
9	satin-finish chrome (standard)
4	shiny black chrome (on request)
5	shiny gold (on request)

**Legend:**  Stay-put  Spring-return  Key withdrawal position

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



### Main features

- Protection degree IP67 and IP69K
- 4 different shapes
- Standard or illuminated versions
- Stay-put or spring-return versions

### Markings and quality marks:



Approval GOST: POCC IT.AB24.B04512

### Technical data

#### General data

Protection degree:	IP67 according to IEC 60529 IP69K according to DIN 40050 <sup>b</sup>
Ambient temperature:	-25°C +80°C
Mechanical endurance:	1 million operations cycles <sup>1</sup> (SE, SL series) 0,3 million operations cycles <sup>1</sup> (SC series)
Max operating frequency:	3600 operations cycles <sup>1</sup> /hour
Actuating force at end travel:	0,07 Nm (without contacts)
Maximum travel:	60° (2 stay-put positions) 40° (2 spring-return positions) ±60° (3 stay-put positions) ±40° (3 spring-return positions)
Ring driving torque:	2 ... 2,5 Nm
Utilization requirements:	see page 3/98
<small>(1) One operation cycle means two movements, one to close and one to open contacts, as foreseen by EN 60947-5-1 standard.</small>	
<small>(b) Protect the cables from direct high-pressure and high-temperature jets</small>	

#### 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

#### ⚠ 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 EN 60947-5-1, encl. K, par. 2.

#### In conformity with requirements requested by:

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

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

IEC 60947-5-1, EN 60947-5-1, VDE 0660-206.

## General characteristics

### Protection degree IP67 and IP69K

**IP69K**  
**IP67**

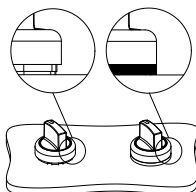
Designed to be employed also in severe environment conditions, Pizzato Elettrica pushbuttons have protection degree IP67 and IP69K, suitable for use in machineries subjected to intense washing with high pressure and high temperature water jets.

### 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.

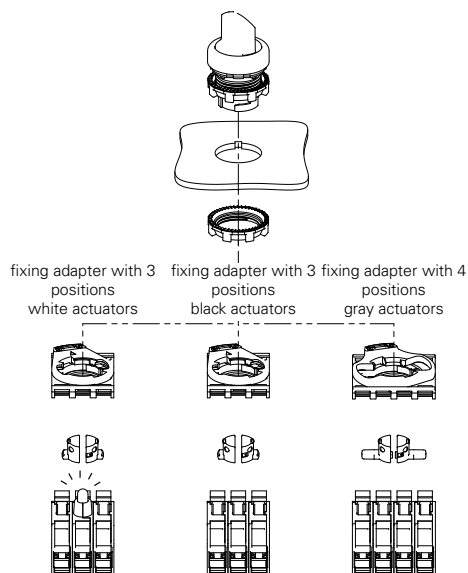
### Shaped ring



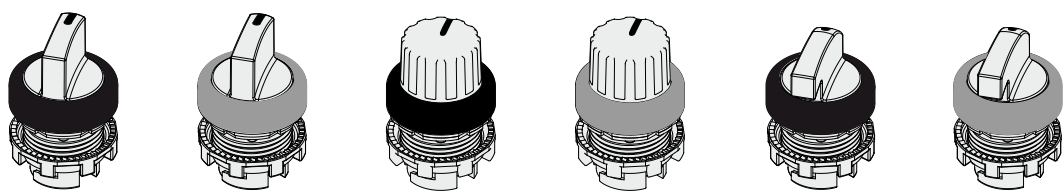
The shaped ring can be used when no label holders or other devices are applied; it prevents dirt and other residues from settling between the pushbutton and the panel or box. This turns out to be particularly useful in the sectors where high standards of cleanness and hygiene are required.

### Selectors actuators

There are 3 types of actuators which work on the contacts wipers combined with the selector: a white actuator which allows the commutation of a single contact block and a black or gray actuator which simultaneously commutes 2 side by side contact blocks. White, black (3 positions) and gray (4 positions) actuators can be disassembled and removed any time, this way allowing to freely configure the commutation exercised by the selector on the contacts.



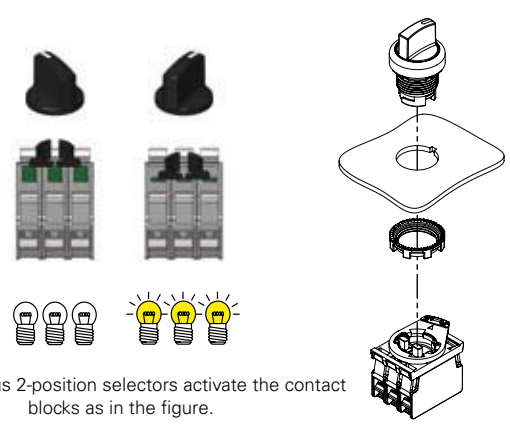
**Selectors selection table**



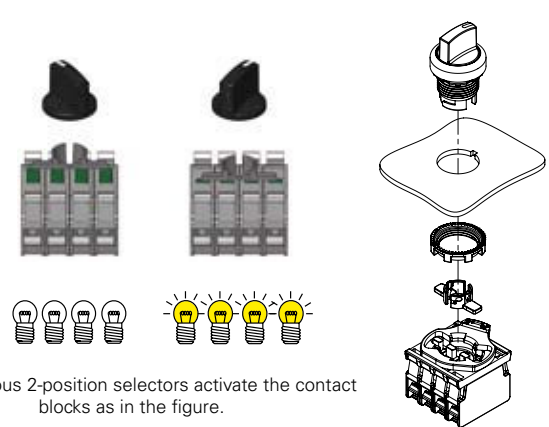
Actuator colour and marking	2 positions	short handle		knob		long handle	
		black ring	satin chrome ring	black ring	satin chrome ring	black ring	satin chrome ring
black		E2 1SE12AVA11AB	E2 1SE12AVA19AB	E2 1SE42AVA11AB	E2 1SE42AVA19AB	E2 1SE22AVA11AB	E2 1SE22AVA19AB
white		E2 1SE12AVA21AB	E2 1SE12AVA29AB	E2 1SE42AVA21AB	E2 1SE42AVA29AB	E2 1SE22AVA21AB	E2 1SE22AVA29AB
red		E2 1SE12AVA31AB	E2 1SE12AVA39AB	E2 1SE42AVA31AB	E2 1SE42AVA39AB	E2 1SE22AVA31AB	E2 1SE22AVA39AB
green		E2 1SE12AVA41AB	E2 1SE12AVA49AB	E2 1SE42AVA41AB	E2 1SE42AVA49AB	E2 1SE22AVA41AB	E2 1SE22AVA49AB
yellow		E2 1SE12AVA51AB	E2 1SE12AVA59AB	E2 1SE42AVA51AB	E2 1SE42AVA59AB	E2 1SE22AVA51AB	E2 1SE22AVA59AB
blue		E2 1SE12AVA61AB	E2 1SE12AVA69AB	E2 1SE42AVA61AB	E2 1SE42AVA69AB	E2 1SE22AVA61AB	E2 1SE22AVA69AB
orange		E2 1SE12AVA81AB	E2 1SE12AVA89AB	E2 1SE42AVA81AB	E2 1SE42AVA89AB	E2 1SE22AVA81AB	E2 1SE22AVA89AB
black		E2 1SE12EVA11AB	E2 1SE12EVA19AB	E2 1SE42EVA11AB	E2 1SE42EVA19AB	E2 1SE22EVA11AB	E2 1SE22EVA19AB
white		E2 1SE12EVA21AB	E2 1SE12EVA29AB	E2 1SE42EVA21AB	E2 1SE42EVA29AB	E2 1SE22EVA21AB	E2 1SE22EVA29AB
red		E2 1SE12EVA31AB	E2 1SE12EVA39AB	E2 1SE42EVA31AB	E2 1SE42EVA39AB	E2 1SE22EVA31AB	E2 1SE22EVA39AB
green		E2 1SE12EVA41AB	E2 1SE12EVA49AB	E2 1SE42EVA41AB	E2 1SE42EVA49AB	E2 1SE22EVA41AB	E2 1SE22EVA49AB
yellow		E2 1SE12EVA51AB	E2 1SE12EVA59AB	E2 1SE42EVA51AB	E2 1SE42EVA59AB	E2 1SE22EVA51AB	E2 1SE22EVA59AB
blue		E2 1SE12EVA61AB	E2 1SE12EVA69AB	E2 1SE42EVA61AB	E2 1SE42EVA69AB	E2 1SE22EVA61AB	E2 1SE22EVA69AB
orange		E2 1SE12EVA81AB	E2 1SE12EVA89AB	E2 1SE42EVA81AB	E2 1SE42EVA89AB	E2 1SE22EVA81AB	E2 1SE22EVA89AB
black		E2 1SE12ACA11AB	E2 1SE12ACA19AB	E2 1SE42ACA11AB	E2 1SE42ACA19AB	E2 1SE22ACA11AB	E2 1SE22ACA19AB
white		E2 1SE12ACA21AB	E2 1SE12ACA29AB	E2 1SE42ACA21AB	E2 1SE42ACA29AB	E2 1SE22ACA21AB	E2 1SE22ACA29AB
red		E2 1SE12ACA31AB	E2 1SE12ACA39AB	E2 1SE42ACA31AB	E2 1SE42ACA39AB	E2 1SE22ACA31AB	E2 1SE22ACA39AB
green		E2 1SE12ACA41AB	E2 1SE12ACA49AB	E2 1SE42ACA41AB	E2 1SE42ACA49AB	E2 1SE22ACA41AB	E2 1SE22ACA49AB
yellow		E2 1SE12ACA51AB	E2 1SE12ACA59AB	E2 1SE42ACA51AB	E2 1SE42ACA59AB	E2 1SE22ACA51AB	E2 1SE22ACA59AB
blue		E2 1SE12ACA61AB	E2 1SE12ACA69AB	E2 1SE42ACA61AB	E2 1SE42ACA69AB	E2 1SE22ACA61AB	E2 1SE22ACA69AB
orange		E2 1SE12ACA81AB	E2 1SE12ACA89AB	E2 1SE42ACA81AB	E2 1SE42ACA89AB	E2 1SE22ACA81AB	E2 1SE22ACA89AB
black		E2 1SE12ECA11AB	E2 1SE12ECA19AB	E2 1SE42ECA11AB	E2 1SE42ECA19AB	E2 1SE22ECA11AB	E2 1SE22ECA19AB
white		E2 1SE12ECA21AB	E2 1SE12ECA29AB	E2 1SE42ECA21AB	E2 1SE42ECA29AB	E2 1SE22ECA21AB	E2 1SE22ECA29AB
red		E2 1SE12ECA31AB	E2 1SE12ECA39AB	E2 1SE42ECA31AB	E2 1SE42ECA39AB	E2 1SE22ECA31AB	E2 1SE22ECA39AB
green		E2 1SE12ECA41AB	E2 1SE12ECA49AB	E2 1SE42ECA41AB	E2 1SE42ECA49AB	E2 1SE22ECA41AB	E2 1SE22ECA49AB
yellow		E2 1SE12ECA51AB	E2 1SE12ECA59AB	E2 1SE42ECA51AB	E2 1SE42ECA59AB	E2 1SE22ECA51AB	E2 1SE22ECA59AB
blue		E2 1SE12ECA61AB	E2 1SE12ECA69AB	E2 1SE42ECA61AB	E2 1SE42ECA69AB	E2 1SE22ECA61AB	E2 1SE22ECA69AB
orange		E2 1SE12ECA81AB	E2 1SE12ECA89AB	E2 1SE42ECA81AB	E2 1SE42ECA89AB	E2 1SE22ECA81AB	E2 1SE22ECA89AB

Fixing adapter with 3 positions

Fixing adapter with 4 positions



Non-luminous 2-position selectors activate the contact blocks as in the figure.



Non-luminous 2-position selectors activate the contact blocks as in the figure.

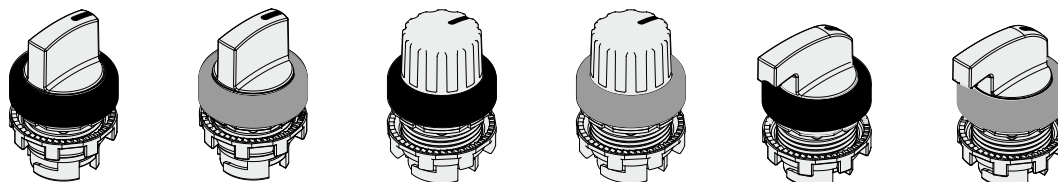
The actuators for an adapter with 4 positions must be mounted after fixing the selector.

**Legend:** Stay-put Spring-return

Knob selectors can be customized with inscriptions and symbols.

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

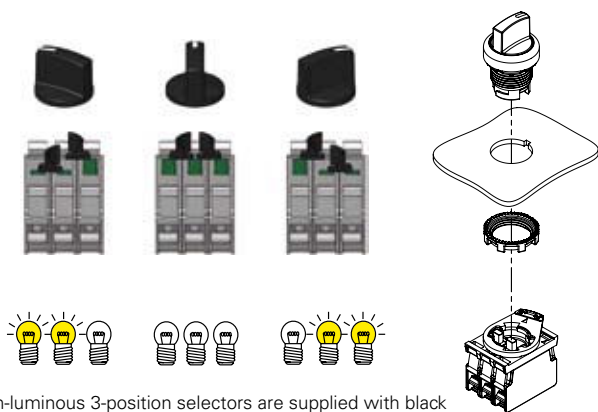
Selectors selection table



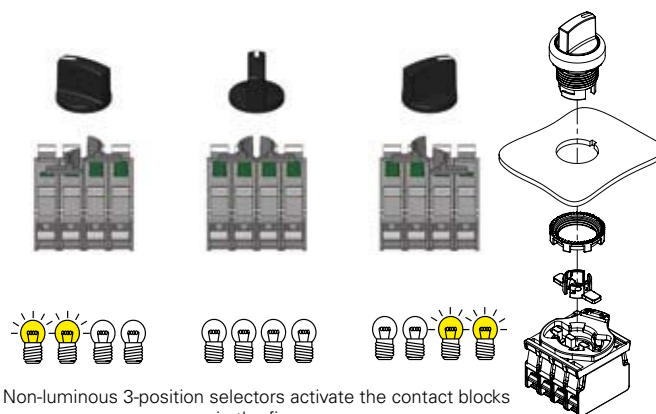
Actuator colour and marking	3 positions	short handle		knob		long handle	
		black ring	satin chrome ring	black ring	satin chrome ring	black ring	satin chrome ring
● black	∨	E2 1SE13ACE11AB	E2 1SE13ACE19AB	E2 1SE43ACE11AB	E2 1SE43ACE19AB	E2 1SE23ACE11AB	E2 1SE23ACE19AB
○ white	∨	E2 1SE13ACE21AB	E2 1SE13ACE29AB	E2 1SE43ACE21AB	E2 1SE43ACE29AB	E2 1SE23ACE21AB	E2 1SE23ACE29AB
● red	∨	E2 1SE13ACE31AB	E2 1SE13ACE39AB	E2 1SE43ACE31AB	E2 1SE43ACE39AB	E2 1SE23ACE31AB	E2 1SE23ACE39AB
● green	∨	E2 1SE13ACE41AB	E2 1SE13ACE49AB	E2 1SE43ACE41AB	E2 1SE43ACE49AB	E2 1SE23ACE41AB	E2 1SE23ACE49AB
● yellow	∨	E2 1SE13ACE51AB	E2 1SE13ACE59AB	E2 1SE43ACE51AB	E2 1SE43ACE59AB	E2 1SE23ACE51AB	E2 1SE23ACE59AB
● blue	∨	E2 1SE13ACE61AB	E2 1SE13ACE69AB	E2 1SE43ACE61AB	E2 1SE43ACE69AB	E2 1SE23ACE61AB	E2 1SE23ACE69AB
● orange	∨	E2 1SE13ACE81AB	E2 1SE13ACE89AB	E2 1SE43ACE81AB	E2 1SE43ACE89AB	E2 1SE23ACE81AB	E2 1SE23ACE89AB
● black	∧	E2 1SE13ECE11AB	E2 1SE13ECE19AB	E2 1SE43ECE11AB	E2 1SE43ECE19AB	E2 1SE23ECE11AB	E2 1SE23ECE19AB
○ white	∧	E2 1SE13ECE21AB	E2 1SE13ECE29AB	E2 1SE43ECE21AB	E2 1SE43ECE29AB	E2 1SE23ECE21AB	E2 1SE23ECE29AB
● red	∧	E2 1SE13ECE31AB	E2 1SE13ECE39AB	E2 1SE43ECE31AB	E2 1SE43ECE39AB	E2 1SE23ECE31AB	E2 1SE23ECE39AB
● green	∧	E2 1SE13ECE41AB	E2 1SE13ECE49AB	E2 1SE43ECE41AB	E2 1SE43ECE49AB	E2 1SE23ECE41AB	E2 1SE23ECE49AB
● yellow	∧	E2 1SE13ECE51AB	E2 1SE13ECE59AB	E2 1SE43ECE51AB	E2 1SE43ECE59AB	E2 1SE23ECE51AB	E2 1SE23ECE59AB
● blue	∧	E2 1SE13ECE61AB	E2 1SE13ECE69AB	E2 1SE43ECE61AB	E2 1SE43ECE69AB	E2 1SE23ECE61AB	E2 1SE23ECE69AB
● orange	∧	E2 1SE13ECE81AB	E2 1SE13ECE89AB	E2 1SE43ECE81AB	E2 1SE43ECE89AB	E2 1SE23ECE81AB	E2 1SE23ECE89AB
● black	∧	E2 1SE13FCE11AB	E2 1SE13FCE19AB	E2 1SE43FCE11AB	E2 1SE43FCE19AB	E2 1SE23FCE11AB	E2 1SE23FCE19AB
○ white	∧	E2 1SE13FCE21AB	E2 1SE13FCE29AB	E2 1SE43FCE21AB	E2 1SE43FCE29AB	E2 1SE23FCE21AB	E2 1SE23FCE29AB
● red	∧	E2 1SE13FCE31AB	E2 1SE13FCE39AB	E2 1SE43FCE31AB	E2 1SE43FCE39AB	E2 1SE23FCE31AB	E2 1SE23FCE39AB
● green	∧	E2 1SE13FCE41AB	E2 1SE13FCE49AB	E2 1SE43FCE41AB	E2 1SE43FCE49AB	E2 1SE23FCE41AB	E2 1SE23FCE49AB
● yellow	∧	E2 1SE13FCE51AB	E2 1SE13FCE59AB	E2 1SE43FCE51AB	E2 1SE43FCE59AB	E2 1SE23FCE51AB	E2 1SE23FCE59AB
● blue	∧	E2 1SE13FCE61AB	E2 1SE13FCE69AB	E2 1SE43FCE61AB	E2 1SE43FCE69AB	E2 1SE23FCE61AB	E2 1SE23FCE69AB
● orange	∧	E2 1SE13FCE81AB	E2 1SE13FCE89AB	E2 1SE43FCE81AB	E2 1SE43FCE89AB	E2 1SE23FCE81AB	E2 1SE23FCE89AB
● black	∧	E2 1SE13GCE11AB	E2 1SE13GCE19AB	E2 1SE43GCE11AB	E2 1SE43GCE19AB	E2 1SE23GCE11AB	E2 1SE23GCE19AB
○ white	∧	E2 1SE13GCE21AB	E2 1SE13GCE29AB	E2 1SE43GCE21AB	E2 1SE43GCE29AB	E2 1SE23GCE21AB	E2 1SE23GCE29AB
● red	∧	E2 1SE13GCE31AB	E2 1SE13GCE39AB	E2 1SE43GCE31AB	E2 1SE43GCE39AB	E2 1SE23GCE31AB	E2 1SE23GCE39AB
● green	∧	E2 1SE13GCE41AB	E2 1SE13GCE49AB	E2 1SE43GCE41AB	E2 1SE43GCE49AB	E2 1SE23GCE41AB	E2 1SE23GCE49AB
● yellow	∧	E2 1SE13GCE51AB	E2 1SE13GCE59AB	E2 1SE43GCE51AB	E2 1SE43GCE59AB	E2 1SE23GCE51AB	E2 1SE23GCE59AB
● blue	∧	E2 1SE13GCE61AB	E2 1SE13GCE69AB	E2 1SE43GCE61AB	E2 1SE43GCE69AB	E2 1SE23GCE61AB	E2 1SE23GCE69AB
● orange	∧	E2 1SE13GCE81AB	E2 1SE13GCE89AB	E2 1SE43GCE81AB	E2 1SE43GCE89AB	E2 1SE23GCE81AB	E2 1SE23GCE89AB

Fixing adapter with 3 positions

Fixing adapter with 4 positions



Non-luminous 3-position selectors are supplied with black actuators which activate the contact blocks as in the figure.



Non-luminous 3-position selectors activate the contact blocks as in the figure.

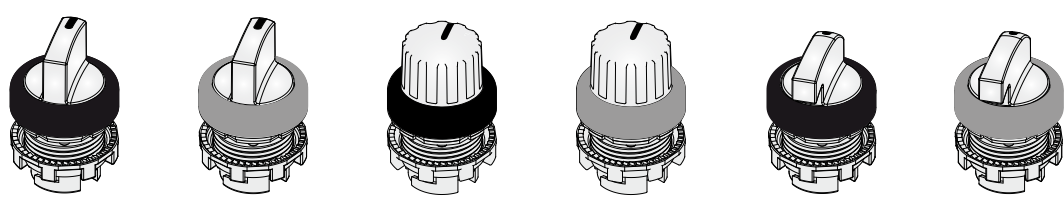
Legend: ∨ Stay-put ∧ Spring-return




Knob selectors can be customized with inscriptions and symbols.

The actuators for an adapter with 4 positions must be mounted after fixing the selector.

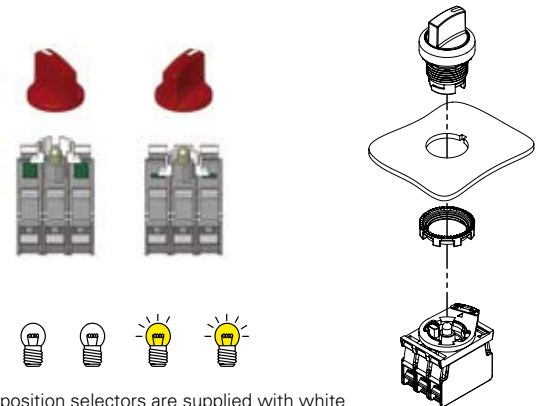
Items with code on the green background are available in stock

**Illuminated selectors selection table**



Actuator colour and marking	2 positions	short handle		knob		long handle	
		black ring	satin chrome ring	black ring	satin chrome ring	black ring	satin chrome ring
 white		E2 1SL12AVD21AB	E2 1SL12AVD29AB	E2 1SL42AVD21AB	E2 1SL42AVD29AB	E2 1SL22AVD21AB	E2 1SL22AVD29AB
 red		E2 1SL12AVD31AB	E2 1SL12AVD39AB	E2 1SL42AVD31AB	E2 1SL42AVD39AB	E2 1SL22AVD31AB	E2 1SL22AVD39AB
 green		E2 1SL12AVD41AB	E2 1SL12AVD49AB	E2 1SL42AVD41AB	E2 1SL42AVD49AB	E2 1SL22AVD41AB	E2 1SL22AVD49AB
 yellow		E2 1SL12AVD51AB	E2 1SL12AVD59AB	E2 1SL42AVD51AB	E2 1SL42AVD59AB	E2 1SL22AVD51AB	E2 1SL22AVD59AB
 blue		E2 1SL12AVD61AB	E2 1SL12AVD69AB	E2 1SL42AVD61AB	E2 1SL42AVD69AB	E2 1SL22AVD61AB	E2 1SL22AVD69AB
 orange		E2 1SL12AVD81AB	E2 1SL12AVD89AB	E2 1SL42AVD81AB	E2 1SL42AVD89AB	E2 1SL22AVD81AB	E2 1SL22AVD89AB
 white		E2 1SL12EVD21AB	E2 1SL12EVD29AB	E2 1SL42EVD21AB	E2 1SL42EVD29AB	E2 1SL22EVD21AB	E2 1SL22EVD29AB
 red		E2 1SL12EVD31AB	E2 1SL12EVD39AB	E2 1SL42EVD31AB	E2 1SL42EVD39AB	E2 1SL22EVD31AB	E2 1SL22EVD39AB
 green		E2 1SL12EVD41AB	E2 1SL12EVD49AB	E2 1SL42EVD41AB	E2 1SL42EVD49AB	E2 1SL22EVD41AB	E2 1SL22EVD49AB
 yellow		E2 1SL12EVD51AB	E2 1SL12EVD59AB	E2 1SL42EVD51AB	E2 1SL42EVD59AB	E2 1SL22EVD51AB	E2 1SL22EVD59AB
 blue		E2 1SL12EVD61AB	E2 1SL12EVD69AB	E2 1SL42EVD61AB	E2 1SL42EVD69AB	E2 1SL22EVD61AB	E2 1SL22EVD69AB
 orange		E2 1SL12EVD81AB	E2 1SL12EVD89AB	E2 1SL42EVD81AB	E2 1SL42EVD89AB	E2 1SL22EVD81AB	E2 1SL22EVD89AB
 white		E2 1SL12ACD21AB	E2 1SL12ACD29AB	E2 1SL42ACD21AB	E2 1SL42ACD29AB	E2 1SL22ACD21AB	E2 1SL22ACD29AB
 red		E2 1SL12ACD31AB	E2 1SL12ACD39AB	E2 1SL42ACD31AB	E2 1SL42ACD39AB	E2 1SL22ACD31AB	E2 1SL22ACD39AB
 green		E2 1SL12ACD41AB	E2 1SL12ACD49AB	E2 1SL42ACD41AB	E2 1SL42ACD49AB	E2 1SL22ACD41AB	E2 1SL22ACD49AB
 yellow		E2 1SL12ACD51AB	E2 1SL12ACD59AB	E2 1SL42ACD51AB	E2 1SL42ACD59AB	E2 1SL22ACD51AB	E2 1SL22ACD59AB
 blue		E2 1SL12ACD61AB	E2 1SL12ACD69AB	E2 1SL42ACD61AB	E2 1SL42ACD69AB	E2 1SL22ACD61AB	E2 1SL22ACD69AB
 orange		E2 1SL12ACD81AB	E2 1SL12ACD89AB	E2 1SL42ACD81AB	E2 1SL42ACD89AB	E2 1SL22ACD81AB	E2 1SL22ACD89AB
 white		E2 1SL12ECD21AB	E2 1SL12ECD29AB	E2 1SL42ECD21AB	E2 1SL42ECD29AB	E2 1SL22ECD21AB	E2 1SL22ECD29AB
 red		E2 1SL12ECD31AB	E2 1SL12ECD39AB	E2 1SL42ECD31AB	E2 1SL42ECD39AB	E2 1SL22ECD31AB	E2 1SL22ECD39AB
 green		E2 1SL12ECD41AB	E2 1SL12ECD49AB	E2 1SL42ECD41AB	E2 1SL42ECD49AB	E2 1SL22ECD41AB	E2 1SL22ECD49AB
 yellow		E2 1SL12ECD51AB	E2 1SL12ECD59AB	E2 1SL42ECD51AB	E2 1SL42ECD59AB	E2 1SL22ECD51AB	E2 1SL22ECD59AB
 blue		E2 1SL12ECD61AB	E2 1SL12ECD69AB	E2 1SL42ECD61AB	E2 1SL42ECD69AB	E2 1SL22ECD61AB	E2 1SL22ECD69AB
 orange		E2 1SL12ECD81AB	E2 1SL12ECD89AB	E2 1SL42ECD81AB	E2 1SL42ECD89AB	E2 1SL22ECD81AB	E2 1SL22ECD89AB

**Fixing adapter with 3 positions**



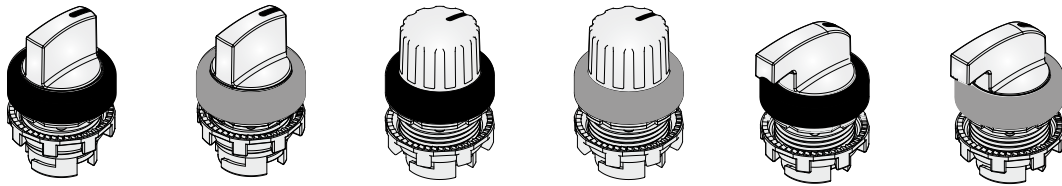
Luminous 2-position selectors are supplied with white actuators which activate the contact blocks as in the figure.

**Legend:**  Stay-put  Spring-return

Knob selectors can be customized with inscriptions and symbols.

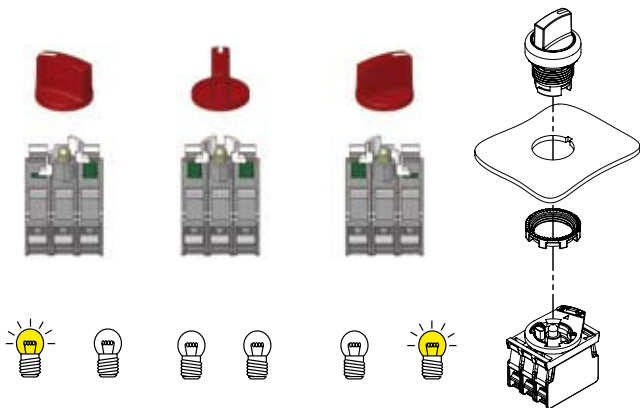
Items with code on the **green** background are available in stock

Illuminated selectors selection table



Actuator colour and marking	3 positions	short handle		knob		long handle	
		black ring	satin chrome ring	black ring	satin chrome ring	black ring	satin chrome ring
○ white	∨	E2 1SL13ACH21AB	E2 1SL13ACH29AB	E2 1SL43ACH21AB	E2 1SL43ACH29AB	E2 1SL23ACH21AB	E2 1SL23ACH29AB
● red	∨	E2 1SL13ACH31AB	E2 1SL13ACH39AB	E2 1SL43ACH31AB	E2 1SL43ACH39AB	E2 1SL23ACH31AB	E2 1SL23ACH39AB
● green	∨	E2 1SL13ACH41AB	E2 1SL13ACH49AB	E2 1SL43ACH41AB	E2 1SL43ACH49AB	E2 1SL23ACH41AB	E2 1SL23ACH49AB
● yellow	∨	E2 1SL13ACH51AB	E2 1SL13ACH59AB	E2 1SL43ACH51AB	E2 1SL43ACH59AB	E2 1SL23ACH51AB	E2 1SL23ACH59AB
● blue	∨	E2 1SL13ACH61AB	E2 1SL13ACH69AB	E2 1SL43ACH61AB	E2 1SL43ACH69AB	E2 1SL23ACH61AB	E2 1SL23ACH69AB
● orange	∨	E2 1SL13ACH81AB	E2 1SL13ACH89AB	E2 1SL43ACH81AB	E2 1SL43ACH89AB	E2 1SL23ACH81AB	E2 1SL23ACH89AB
○ white	∨	E2 1SL13ECH21AB	E2 1SL13ECH29AB	E2 1SL43ECH21AB	E2 1SL43ECH29AB	E2 1SL23ECH21AB	E2 1SL23ECH29AB
● red	∨	E2 1SL13ECH31AB	E2 1SL13ECH39AB	E2 1SL43ECH31AB	E2 1SL43ECH39AB	E2 1SL23ECH31AB	E2 1SL23ECH39AB
● green	∨	E2 1SL13ECH41AB	E2 1SL13ECH49AB	E2 1SL43ECH41AB	E2 1SL43ECH49AB	E2 1SL23ECH41AB	E2 1SL23ECH49AB
● yellow	∨	E2 1SL13ECH51AB	E2 1SL13ECH59AB	E2 1SL43ECH51AB	E2 1SL43ECH59AB	E2 1SL23ECH51AB	E2 1SL23ECH59AB
● blue	∨	E2 1SL13ECH61AB	E2 1SL13ECH69AB	E2 1SL43ECH61AB	E2 1SL43ECH69AB	E2 1SL23ECH61AB	E2 1SL23ECH69AB
● orange	∨	E2 1SL13ECH81AB	E2 1SL13ECH89AB	E2 1SL43ECH81AB	E2 1SL43ECH89AB	E2 1SL23ECH81AB	E2 1SL23ECH89AB
○ white	∨	E2 1SL13FCH21AB	E2 1SL13FCH29AB	E2 1SL43FCH21AB	E2 1SL43FCH29AB	E2 1SL23FCH21AB	E2 1SL23FCH29AB
● red	∨	E2 1SL13FCH31AB	E2 1SL13FCH39AB	E2 1SL43FCH31AB	E2 1SL43FCH39AB	E2 1SL23FCH31AB	E2 1SL23FCH39AB
● green	∨	E2 1SL13FCH41AB	E2 1SL13FCH49AB	E2 1SL43FCH41AB	E2 1SL43FCH49AB	E2 1SL23FCH41AB	E2 1SL23FCH49AB
● yellow	∨	E2 1SL13FCH51AB	E2 1SL13FCH59AB	E2 1SL43FCH51AB	E2 1SL43FCH59AB	E2 1SL23FCH51AB	E2 1SL23FCH59AB
● blue	∨	E2 1SL13FCH61AB	E2 1SL13FCH69AB	E2 1SL43FCH61AB	E2 1SL43FCH69AB	E2 1SL23FCH61AB	E2 1SL23FCH69AB
● orange	∨	E2 1SL13FCH81AB	E2 1SL13FCH89AB	E2 1SL43FCH81AB	E2 1SL43FCH89AB	E2 1SL23FCH81AB	E2 1SL23FCH89AB
○ white	∨	E2 1SL13GCH21AB	E2 1SL13GCH29AB	E2 1SL43GCH21AB	E2 1SL43GCH29AB	E2 1SL23GCH21AB	E2 1SL23GCH29AB
● red	∨	E2 1SL13GCH31AB	E2 1SL13GCH39AB	E2 1SL43GCH31AB	E2 1SL43GCH39AB	E2 1SL23GCH31AB	E2 1SL23GCH39AB
● green	∨	E2 1SL13GCH41AB	E2 1SL13GCH49AB	E2 1SL43GCH41AB	E2 1SL43GCH49AB	E2 1SL23GCH41AB	E2 1SL23GCH49AB
● yellow	∨	E2 1SL13GCH51AB	E2 1SL13GCH59AB	E2 1SL43GCH51AB	E2 1SL43GCH59AB	E2 1SL23GCH51AB	E2 1SL23GCH59AB
● blue	∨	E2 1SL13GCH61AB	E2 1SL13GCH69AB	E2 1SL43GCH61AB	E2 1SL43GCH69AB	E2 1SL23GCH61AB	E2 1SL23GCH69AB
● orange	∨	E2 1SL13GCH81AB	E2 1SL13GCH89AB	E2 1SL43GCH81AB	E2 1SL43GCH89AB	E2 1SL23GCH81AB	E2 1SL23GCH89AB

Fixing adapter with 3 positions



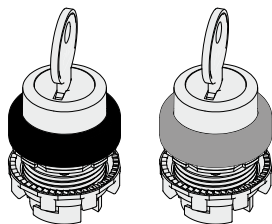
Luminous 3-position selectors are supplied with white actuators which activate the contact blocks as in the figure.

Legend: ∨ Stay-put ▷ Spring-return

Knob selectors can be customized with inscriptions and symbols.

Items with code on the green background are available in stock

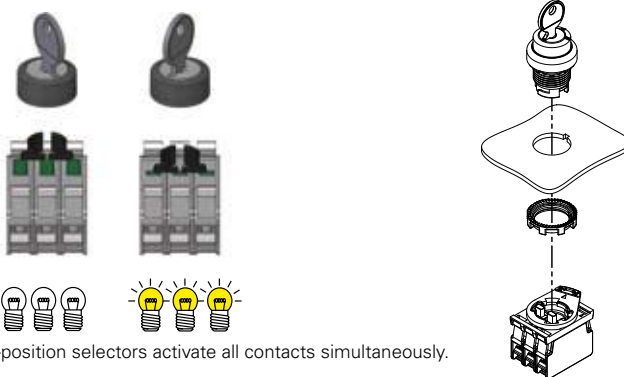
**Key selectors selection table**



Actuator colour and marking	2 positions	key selector	
		black ring	satin chrome ring
● black		E2 1SC2AVA11AA	E2 1SC2AVA19AA
		E2 1SC2BVA11AA	E2 1SC2BVA19AA
		E2 1SC2CVA11AA	E2 1SC2CVA19AA
		E2 1SC2DVA11AA	E2 1SC2DVA19AA
		E2 1SC2ACA11AA	E2 1SC2ACA19AA
		E2 1SC2ACA11AA	E2 1SC2ACA19AA

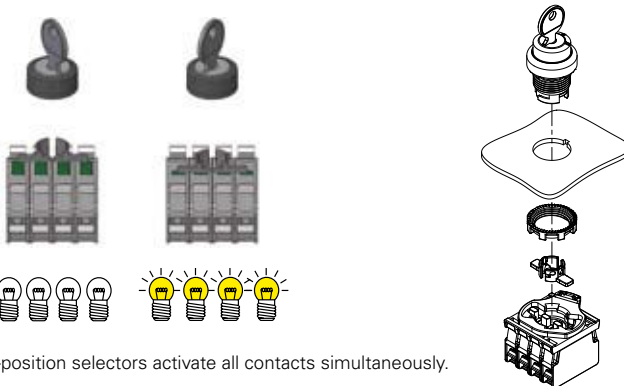
Selector standard colour in above mentioned codes is **BLACK**. Other colours on request. Key selectors can be customized with inscriptions and symbols. All selectors keys have the PY333 code. Other codes on request.

Fixing adapter with 3 positions

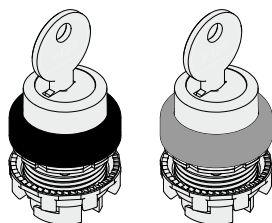


2-position selectors activate all contacts simultaneously.

Fixing adapter with 4 positions



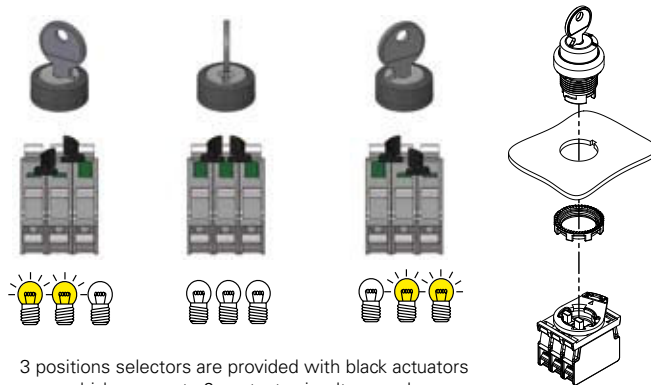
2-position selectors activate all contacts simultaneously.



Actuator colour and marking	3 positions	key selector	
		black ring	satin chrome ring
● black		E2 1SC3ACE11AA	E2 1SC3ACE19AA
		E2 1SC3BCE11AA	E2 1SC3BCE19AA
		E2 1SC3CCE11AA	E2 1SC3CCE19AA
		E2 1SC3DCE11AA	E2 1SC3DCE19AA
		E2 1SC3ECE11AA	E2 1SC3ECE19AA
		E2 1SC3FCE11AA	E2 1SC3FCE19AA
		E2 1SC3GCE11AA	E2 1SC3GCE19AA
		E2 1SC3HCE11AA	E2 1SC3HCE19AA
		E2 1SC3LCE11AA	E2 1SC3LCE19AA
		E2 1SC3MCE11AA	E2 1SC3MCE19AA
		E2 1SC3NCE11AA	E2 1SC3NCE19AA
		E2 1SC3PCE11AA	E2 1SC3PCE19AA
		E2 1SC3QCE11AA	E2 1SC3QCE19AA
		E2 1SC3RCE11AA	E2 1SC3RCE19AA

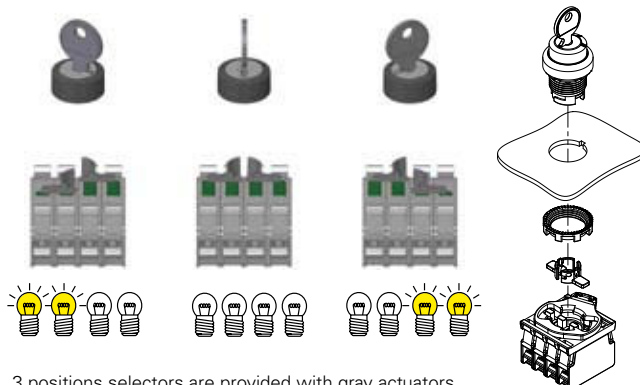
Selector standard colour in above mentioned codes is **BLACK**. Other colours on request. Key selectors can be customized with inscriptions and symbols. All selectors keys have the PY333 code. Other codes on request.

Fixing adapter with 3 positions



3 positions selectors are provided with black actuators which commute 2 contacts simultaneously.

Fixing adapter with 4 positions



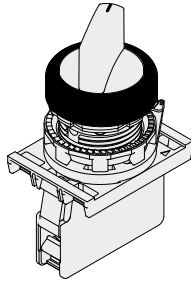
3 positions selectors are provided with gray actuators which commute 2 contacts simultaneously.

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

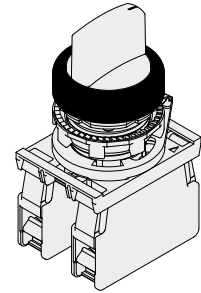
**Legend:** Stay-put Spring-return Key withdrawal position



Complete units with selectors

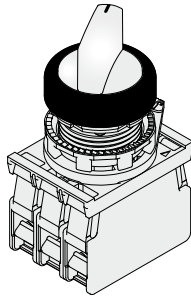


Actuator colour and marking	Contacts			Position	2 positions	
	pos 2	pos 3	pos 1		black ring	
● black	-	1NO	-	↙	<b>E2 AC-DXBC1401</b> E2 1SE12AVA11AB + E2 1BAC11 + E2 CP10G2V1	
● black	-	1NO	-	↘	<b>E2 AC-DXBC1402</b> E2 1SE12EVA11AB + E2 1BAC11 + E2 CP10G2V1	

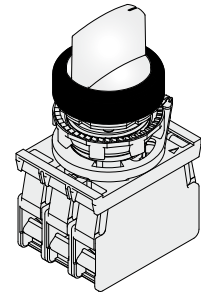


Actuator colour and marking	Contacts			Position	3 positions	
	pos 2	pos 3	pos 1		black ring	
● black	1NO	-	1NO	↙	<b>E2 AC-DXBC1405</b> E2 1SE13ACE11AB + E2 1BAC11 + E2 CP10G2V1 + E2 CP10G2V1	
● black	1NO	-	1NO	↕	<b>E2 AC-DXBC1406</b> E2 1SE13GCE11AB + E2 1BAC11 + E2 CP10G2V1 + E2 CP10G2V1	

Complete units with illuminated selectors

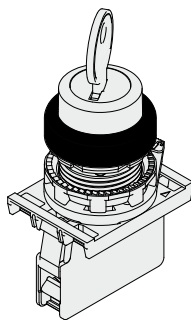


Actuator colour and marking	Contacts			Position	2 positions	
	pos 2	pos 3	pos 1		black ring	
○ white	1NO	LED	1NC ⊕	↙	<b>E2 AC-DXBC1805</b> E2 1SL12AVD21AB + E2 1BAC11 + E2 CP10G2V1 + E2 LP1A2V1 + E2 CP01G2V1	
● green	1NO	LED	1NC ⊕	↙	<b>E2 AC-DXBC1801</b> E2 1SL12AVD41AB + E2 1BAC11 + E2 CP10G2V1 + E2 LP1A4V1 + E2 CP01G2V1	



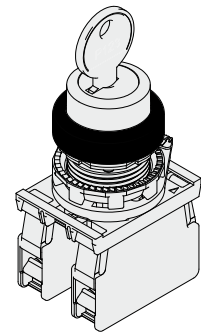
Actuator colour and marking	Contacts			Position	3 positions	
	pos 2	pos 3	pos 1		black ring	
○ white	1NO	LED	1NC ⊕	↙	<b>E2 AC-DXBC1806</b> E2 1SL13ACH21AB + E2 1BAC11 + E2 CP10G2V1 + E2 LP1A2V1 + E2 CP01G2V1	
● green	1NO	LED	1NC ⊕	↙	<b>E2 AC-DXBC1803</b> E2 1SL13ACH41AB + E2 1BAC11 + E2 CP10G2V1 + E2 LP1A4V1 + E2 CP01G2V1	

Complete units with key selectors



Actuator colour and marking	Contacts			Position	2 positions	
	pos 2	pos 3	pos 1		black ring	
● black	-	1NO	-	↙	<b>E2 AC-DXBC1601</b> E2 1SC2AVA11AA + E2 1BAC11 + E2 CP10G2V1	
● black	-	1NO	-	↘	<b>E2 AC-DXBC1605</b> E2 1SC2CVA11AA + E2 1BAC11 + E2 CP10G2V1	
● black	-	1NO	-	↘	<b>E2 AC-DXBC1606</b> E2 1SC2DVA11AA + E2 1BAC11 + E2 CP10G2V1	

Key number PY333




Actuator colour and marking	Contacts			Position	3 positions	
	pos 2	pos 3	pos 1		black ring	
● black	1NO	-	1NO	↙	<b>E2 AC-DXBC1607</b> E2 1SC3DCE11AA + E2 1BAC11 + E2 CP10G2V1 + E2 CP10G2V1 Key number PY333	

Legend: ↙ Stay-put ↘ Spring-return ⊕ Key withdrawal position

→ For the contact block and LED block characteristics see the respective chapters.

**Locking keys**

Article	Description
VE KE1A00-PY333	Locking key






Extra copy of the locking keys to be purchased if further key is needed. All keys have the same code. Other codes on request.

**Accessories**

→ [More ACCESSORIES at page 3/95](#)

**Actuators** 10 pcs packs

Article	Description
 VE AS1212	Black closed actuator for base with 3 positions. It simultaneously operates 2 contact blocks. For selectors: E2 1SE●●●●●●●●, E2 1SC●●●●●●●●
 VE AS1213	White open actuator for base with 3 positions. It operates 1 contact block. For selectors: E2 1SE●●●●●●●●, E2 1SL●●●●●●●●, E2 1SC●●●●●●●●
 VE AS1216	Grey closed actuator for base with 4 positions. It simultaneously operates 2 contact blocks. For selectors: E2 1SE●●●●●●●●, E2 1SC●●●●●●●●

Note: each selector requires 2 actuators.

Items with code on the green background are available in stock

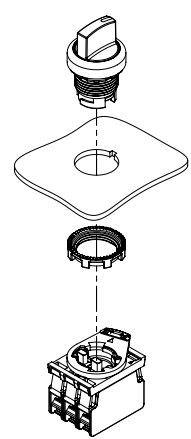
**Contacts maximum number**

Fixing adapter with 3 positions Fixing adapter with 4 positions

Selectors E2 1SE/1SC



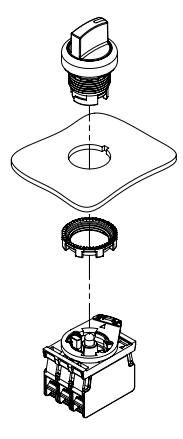
Maximum number:  
contacts 6  
levels 3



Illuminated selectors E2 1SL



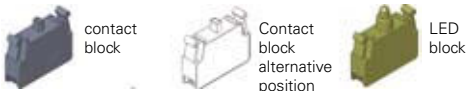
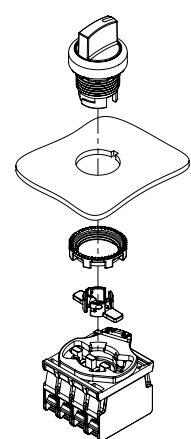
Maximum number:  
contacts 6  
levels 3



Selectors E2 1SE/1SC



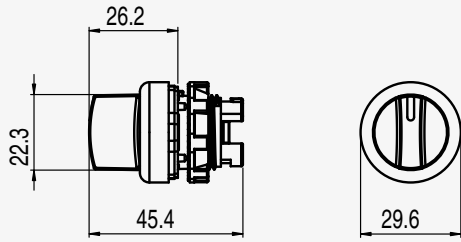
Maximum number:  
contacts 8  
levels 2



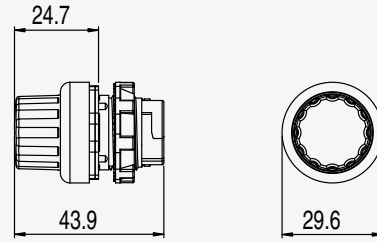
The actuators for an adapter with 4 positions must be mounted after fixing the selector.

Dimensions

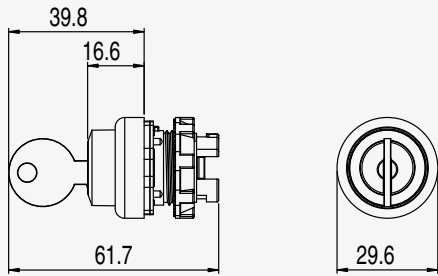
Short handle selector



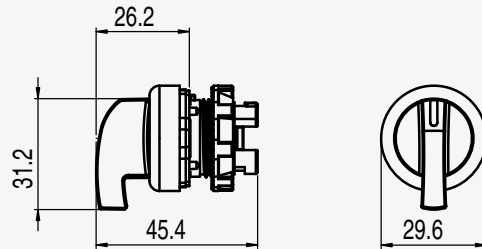
Knob selector



Key selector

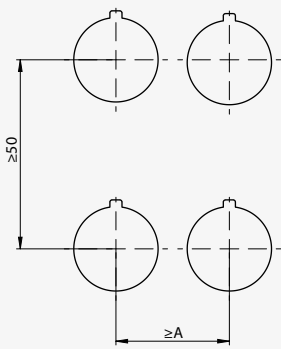


Long handle selector



→ 2D and 3D files available on [www.pizzato.it](http://www.pizzato.it)

Assembling minimum distances

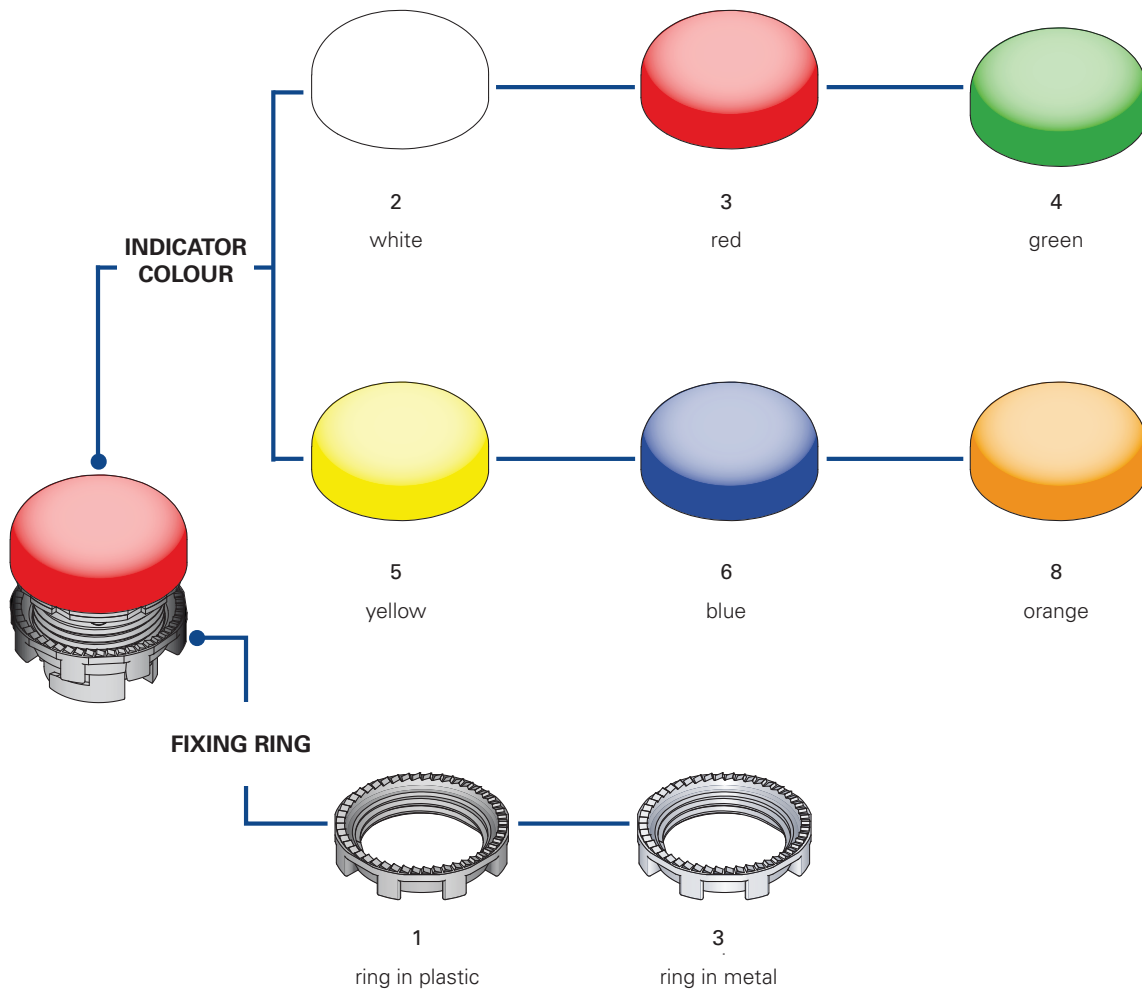


Fixing adapter with 3 positions  
A=30 mm

Fixing adapter with 4 positions  
A=40 mm



Selection diagram




**Indicator lights code structure**

**E2 1ILA210**

Fixing ring and shaped ring	
<b>1</b>	ring in plastic
<b>2</b>	ring in plastic and shaped ring
<b>3</b>	ring in metal
<b>4</b>	ring in metal and shaped ring

Lens shape	
<b>A</b>	flat and smooth

Marking	
<b>0</b>	without marking (standard)
<b>GB7</b>	RUN
<b>GB8</b>	FAULT
<b>L54</b>	
...	.....

Other markings on request. See page 3/97.

Lens colour	
<b>0</b>	without lens
<b>2</b>	white
<b>3</b>	red
<b>4</b>	green
<b>5</b>	yellow
<b>6</b>	blue
<b>8</b>	orange

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



### Main features

- Protection degree IP67 and IP69K
- Optional customisation with symbols
- Removable coloured lens

### Markings and quality marks:



Approval GOST: POCC IT.AB24.B04512

### Technical data

#### General data

Protection degree:	IP67 according to IEC 60529 IP69K according to DIN 40050 <sup>b</sup>
Ambient temperature:	-25°C +70°C
Illumination type:	provided with LED holder E2 LP●●●●, E2 LF●●●● series
Fixing ring driving torque:	2 ... 2,5 Nm
Utilization requirements:	see page 3/98
(b) Protect the cables from direct high-pressure and high-temperature jets)	

#### 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.

#### In conformity with requirements requested by:

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

### General characteristics

#### Protection degree IP67 and IP69K

**IP69K**  
**IP67**

Designed to be employed also in severe environment conditions, Pizzato Elettrica pushbuttons have protection degree IP67 and IP69K, suitable for use in machineries subjected to intense washing with high pressure and high temperature water jets.

#### Customizing possibilities

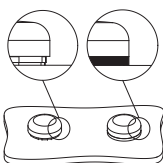
In order to suit the various requests and needs of the customers, Pizzato Elettrica offers the possibility to customize the EROUND control and signalling devices: the rings can be requested in different colours (gold satinized, bright black chrome, white, black and satin chrome), while the lens can be customized with inscriptions, symbols and colours.

#### 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.

#### Shaped ring



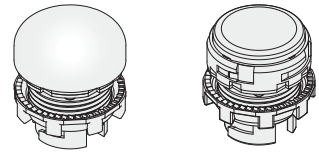
The shaped ring can be used when no label holders or other devices are applied; it prevents dirt and other residues from settling between the pushbutton and the panel or box. This turns out to be particularly useful in the sectors where high standards of cleanness and hygiene are required.

#### LED and lens colours combinations

LED colour	Lens colour
white	white / yellow
red	red
green	green
blue	blue
orange	orange

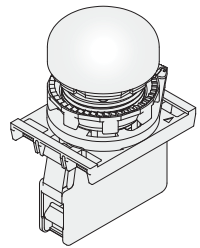
Note: LED colours combined with lens colours different from the indicated ones could result in a not expected final colour.

**Indicator lights lens selection table**



Actuator colour and marking	With lens	Without lens
Without lens	-	E2 11LA010
white	E2 11LA210	-
red	E2 11LA310	-
green	E2 11LA410	-
yellow	E2 11LA510	-
blue	E2 11LA610	-
orange	E2 11LA810	-

**Complete units with indicator lights**



Actuator colour and marking	LED			Article
	pos 2	pos 3	pos 1	
white	-	LED	-	<b>E2 AC-DXBC0200</b> E2 11LA210 + E2 1BAC11 + E2 LP1A2V1
red	-	LED	-	<b>E2 AC-DXBC0201</b> E2 11LA310 + E2 1BAC11 + E2 LP1A3V1
green	-	LED	-	<b>E2 AC-DXBC0202</b> E2 11LA410 + E2 1BAC11 + E2 LP1A4V1
yellow	-	LED	-	<b>E2 AC-DXBC0203</b> E2 11LA510 + E2 1BAC11 + E2 LP1A2V1
blue	-	LED	-	<b>E2 AC-DXBC0204</b> E2 11LA610 + E2 1BAC11 + E2 LP1A6V1
orange	-	LED	-	<b>E2 AC-DXBC0205</b> E2 11LA810 + E2 1BAC11 + E2 LP1A8V1

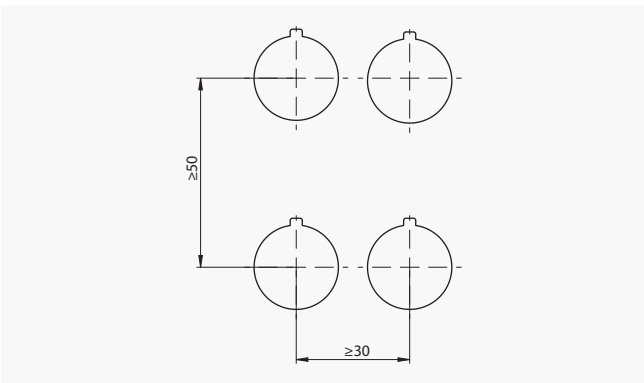
**E2 11L indicator light lenses**



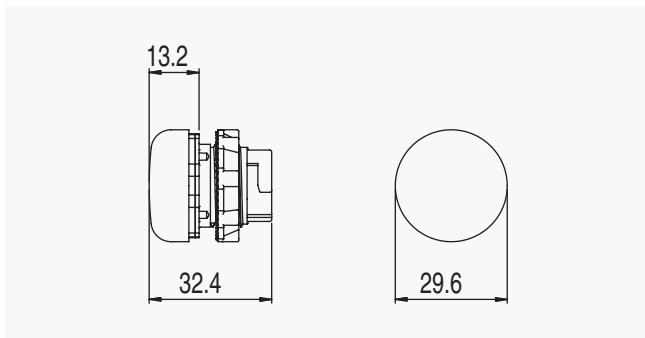
Article	Description	Colours	Pcs/Packs
VE LN2A20	white indicator light lens, without marking		10
VE LN2A30	red indicator light lens, without marking		10
VE LN2A40	green indicator light lens, without marking		10
VE LN2A50	yellow indicator light lens, without marking		10
VE LN2A60	blue indicator light lens, without marking		10
VE LN2A80	orange indicator light lens, without marking		10
VE LN2AA0	6 lens without marking, colours: white, red, green, yellow, blue, orange light,		1
VE LN2A2●●●	white indicator light lens, with marking		1
VE LN2A3●●●	red indicator light lens, with marking		1
VE LN2A4●●●	green indicator light lens, with marking		1
VE LN2A5●●●	yellow indicator light lens, with marking		1
VE LN2A6●●●	blue indicator light lens, with marking		1

**For ordering E2 11L indicator lights lenses with marking:** substitute the ●●● with the marking code in the table at page 3/97.  
Example: indicator light lens with marking "4", red colours  
VE LN 2A2●●● → VE LN 2A2L54

**Assembling minimum distances**



**Dimensions**



**Accessories**

→ [More ACCESSORIES at page 3/95](#)

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