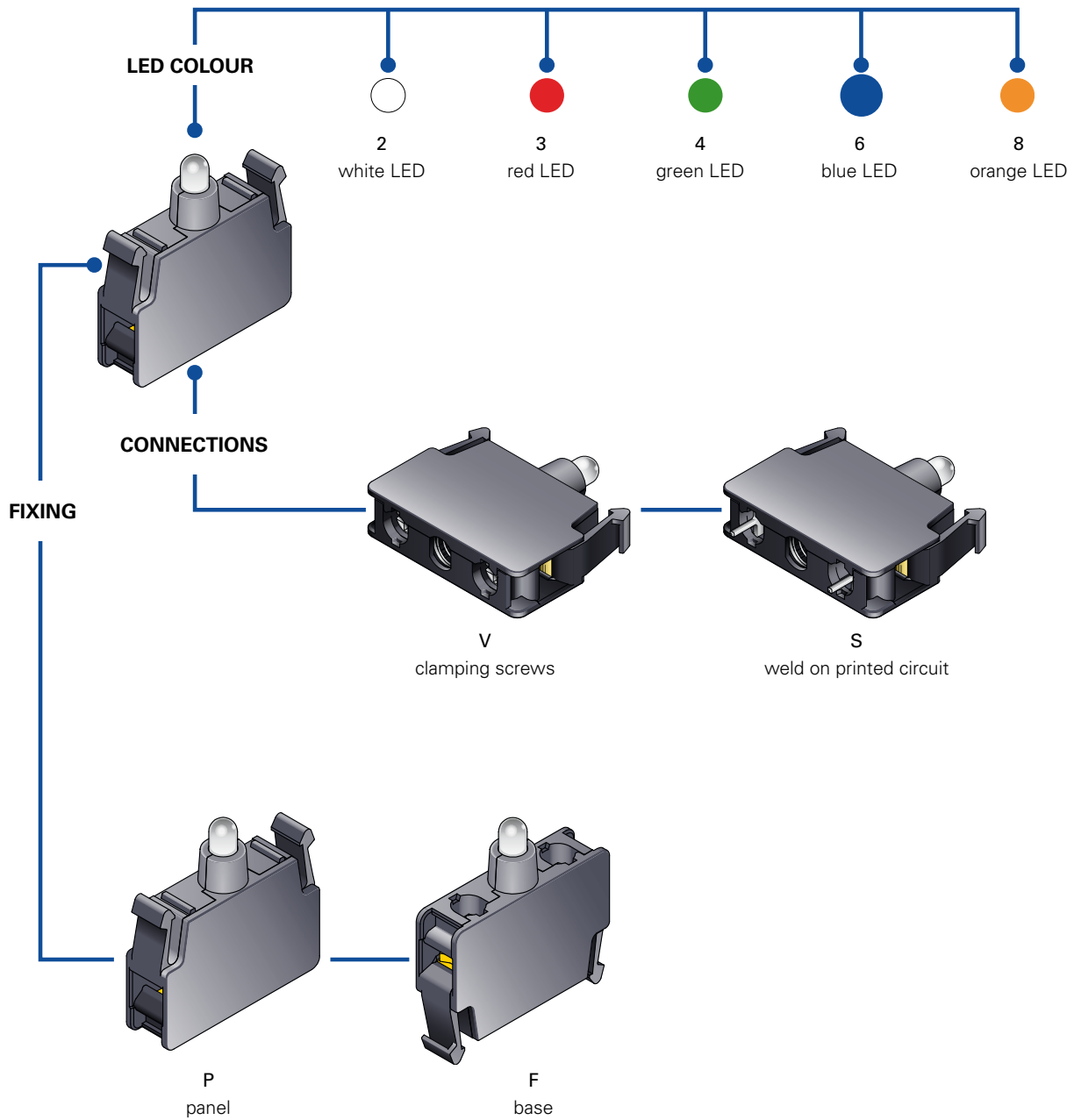


Selection diagram



## LED holders code structure

**E2 LP1A3V1**

## Fixing

<b>P</b>	panel
<b>F</b>	base

## Type of connection

<b>V</b>	clamping screw
<b>S</b>	weld on printed circuit (only panel fixing)

## Supply voltages

<b>1</b>	12 ... 30 Vac/dc (high luminosity)
<b>3</b>	120 Vac (high luminosity)
<b>4</b>	230 Vac (high luminosity)
<b>7</b>	120 Vac (standard luminosity)
<b>8</b>	230 Vac (standard luminosity)

## LED colour

<b>2</b>	white
<b>3</b>	red
<b>4</b>	green
<b>6</b>	blue
<b>8</b>	orange

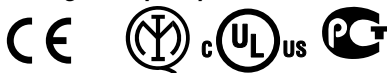
**Attention!** The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



#### Main features

- High brilliancy LED
- 3 power supply:  
12 ... 30 Vac/dc, 120 Vac, 230 Vac
- Protection degree IP20 according to IEC 60529
- Panel and base fixing versions

#### Markings and quality marks:



Approval IMQ: CA02.04805  
Approval UL: E131787  
Approval GOST: POCC IT.AB24.B04512

#### Technical data

##### General data

Protection degree: IP20 on terminals according to IEC 60529  
Ambient temperature: -25°C +70°C  
Endurance: 100.000 hours  
(at rated voltage and ambient temperature +25 °C)  
Utilization requirements: see page 3/98

##### LED holders

Conductor cross section: min 1 x 0,5 mm<sup>2</sup> (1 x AWG 20)  
max 2 x 2,5 mm<sup>2</sup> (2 x AWG 14)

Operation voltage and current:  
(high luminosity) 12 ... 30 Vac/dc; 5 ... 15 mA  
102 ... 138 Vac; 10 ... 12 mA  
195 ... 264 Vac; 9 ... 10 mA

Operation voltage and current:  
(standard luminosity) 102 ... 138 Vac; 2,5 mA  
195 ... 264 Vac; 2,5 mA

Screw terminal driving torque: 0,6 ... 0,8 Nm

##### 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:

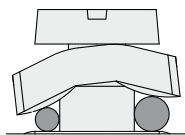
Low Voltage Directive 2006/95/EC, Machinery Directive 2006/42/EC and Electromagnetic Compatibility 2004/108/EC.

#### General characteristics

##### Protection degree

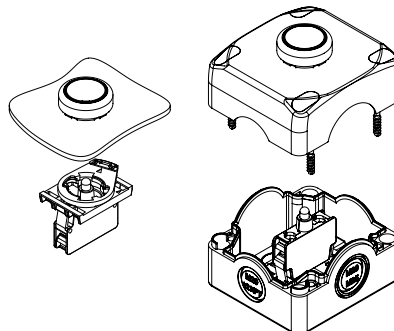
All LED holders have protection degree IP20 on terminals.

##### Clamping screw plates



The clamping screw plates of the LED holders have a particular "roofing tile" structure and are connected loosely to the clamping screw. In this way, during the wires fixing, the clamping screw plate is able to suit to cables of different diameter (see picture) and tends to tighten the wires toward the screw instead of permitting them to escape towards the outside.

##### Available versions



The LED holders of the control and signalling devices have two types of fixing: panel and base fixing.

##### High luminous efficiency LED

The LED holders to be combined with the illuminated devices have LED (Light Emitting Diodes) with a high luminous efficiency in order to guarantee better visibility.

Using integrated LED instead of incandescent lamps is a great advantage since they solve problems related to the endurance and the high power consumption typical of lamps. LED characteristics in fact are a high reliability, low consumption and elevate resistance to vibrations.

##### Wide voltage range

The LED holders of the control and signalling devices offer a wide voltage range.

**Data type approved by UL**

Rated supply voltage Un: 12-30 Vac/dc,  
Rated supply current In: 5-15 mA

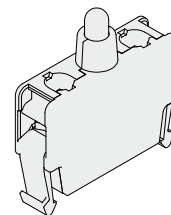
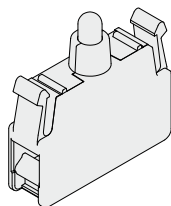
Note:  
- Use copper wire (Cu) 60 or 75 °C rigid or flexible with cross section 12-20 AWG.  
- Terminals tightening torque 7,1 Lb In (0,8 Nm).






**Data type approved by IMQ**






Rated insulation voltage (Ui): 500 V  
Type of luminous indicator: incorporated LED  
Fixing hole diameter: D22  
Terminals: screw clamps  
Rated operating voltage (Ue): 12-30 V a.c./d.c. (5 – 15 mA),  
120 V a.c. (10 mA), 230 V a.c. (10 mA)

Conformity with standards: EN 60947-1, EN 60947-5-1:2004 + A1:2009, fundamental requirements of 2006/95/CE Low Voltage Directive.

**LED holders selection table** 5 pcs packs

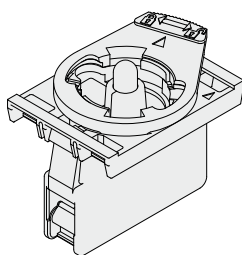







LED colour	Actuator colour	Panel fixing		
		Operation voltage		
		12 ... 30 Vac/dc	120 Vac	230 Vac
 white	white / yellow	E2 LP1A2V1	E2 LP3A2V1	E2 LP4A2V1
 red	red	E2 LP1A3V1	E2 LP3A3V1	E2 LP4A3V1
 green	green	E2 LP1A4V1	E2 LP3A4V1	E2 LP4A4V1
 blue	blue	E2 LP1A6V1	E2 LP3A6V1	E2 LP4A6V1
 orange	orange	E2 LP1A8V1	E2 LP3A8V1	E2 LP4A8V1

LED colour	Actuator colour	Base fixing		
		Operation voltage		
		12 ... 30 Vac/dc	120 Vac	230 Vac
 white	white / yellow	E2 LF1A2V1	E2 LF3A2V1	E2 LF4A2V1
 red	red	E2 LF1A3V1	E2 LF3A3V1	E2 LF4A3V1
 green	green	E2 LF1A4V1	E2 LF3A4V1	E2 LF4A4V1
 blue	blue	E2 LF1A6V1	E2 LF3A6V1	E2 LF4A6V1
 orange	orange	E2 LF1A8V1	E2 LF3A8V1	E2 LF4A8V1

Attention! Comply with the combination between Led and actuators colours.

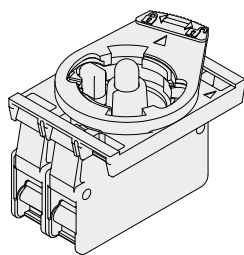
**Complete units with LED holders and fixing adapter**



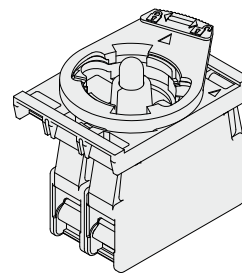
LED colour	LED			Panel fixing
	pos 2	pos 3	pos 1	Operation voltage
				12 ... 30 Vac/dc
 white	-	LED	-	<b>E2 AC-XXBC0053</b> E2 1BAC11 + E2 LP1A2V1
 red	-	LED	-	<b>E2 AC-XXBC0055</b> E2 1BAC11 + E2 LP1A3V1
 green	-	LED	-	<b>E2 AC-XXBC0054</b> E2 1BAC11 + E2 LP1A4V1
 blue	-	LED	-	<b>E2 AC-XXBC0056</b> E2 1BAC11 + E2 LP1A6V1
 orange	-	LED	-	<b>E2 AC-XXBC0057</b> E2 1BAC11 + E2 LP1A8V1

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

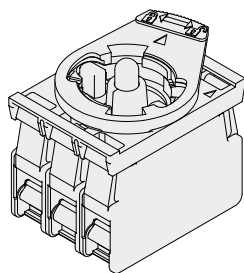
## Complete units with LED holders, contact block and fixing adapter



LED colour	Contacts			Panel fixing
	pos 2	pos 3	pos 1	Operation voltage
				12 ... 30 Vac/dc
white	1NC ⊕	LED	-	<b>E2 AC-XXBC0020</b> E2 1BAC11 + E2 CP01G2V1 + E2 LP1A2V1
red	1NC ⊕	LED	-	<b>E2 AC-XXBC0037</b> E2 1BAC11 + E2 CP01G2V1 + E2 LP1A3V1
green	1NC ⊕	LED	-	<b>E2 AC-XXBC0029</b> E2 1BAC11 + E2 CP01G2V1 + E2 LP1A4V1
blue	1NC ⊕	LED	-	<b>E2 AC-XXBC0045</b> E2 1BAC11 + E2 CP01G2V1 + E2 LP1A6V1
orange	1NC ⊕	LED	-	<b>E2 AC-XXBC0058</b> E2 1BAC11 + E2 CP01G2V1 + E2 LP1A8V1



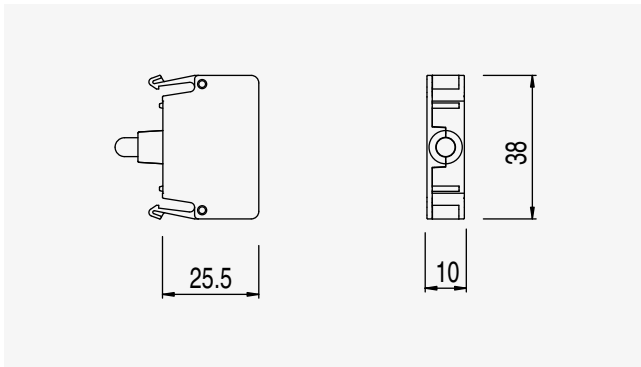
LED colour	Contacts			Panel fixing
	pos 2	pos 3	pos 1	Operation voltage
				12 ... 30 Vac/dc
white	-	LED	1NO	<b>E2 AC-XXBC0021</b> E2 1BAC11 + E2 LP1A2V1 + E2 CP10G2V1
red	-	LED	1NO	<b>E2 AC-XXBC0039</b> E2 1BAC11 + E2 LP1A3V1 + E2 CP10G2V1
green	-	LED	1NO	<b>E2 AC-XXBC0031</b> E2 1BAC11 + E2 LP1A4V1 + E2 CP10G2V1
blue	-	LED	1NO	<b>E2 AC-XXBC0047</b> E2 1BAC11 + E2 LP1A6V1 + E2 CP10G2V1
orange	-	LED	1NO	<b>E2 AC-XXBC0059</b> E2 1BAC11 + E2 LP1A8V1 + E2 CP10G2V1



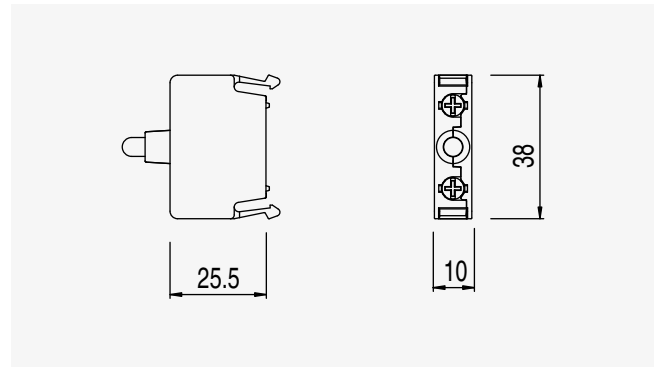
LED colour	Contacts			Panel fixing
	pos 2	pos 3	pos 1	Operation voltage
				12 ... 30 Vac/dc
white	1NC ⊕	LED	1NO	<b>E2 AC-XXBC0027</b> E2 1BAC11 + E2 CP01G2V1 + E2 LP1A2V1 + E2 CP10G2V1
red	1NC ⊕	LED	1NO	<b>E2 AC-XXBC0044</b> E2 1BAC11 + E2 CP01G2V1 + E2 LP1A3V1 + E2 CP10G2V1
green	1NC ⊕	LED	1NO	<b>E2 AC-XXBC0036</b> E2 1BAC11 + E2 CP01G2V1 + E2 LP1A4V1 + E2 CP10G2V1
blue	1NC ⊕	LED	1NO	<b>E2 AC-XXBC0052</b> E2 1BAC11 + E2 CP01G2V1 + E2 LP1A6V1 + E2 CP10G2V1
orange	1NC ⊕	LED	1NO	<b>E2 AC-XXBC0060</b> E2 1BAC11 + E2 CP01G2V1 + E2 LP1A8V1 + E2 CP10G2V1

**Dimensions**

**Panel fixing contact block**



**Base fixing contact block**



All measures in the drawings are in mm

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