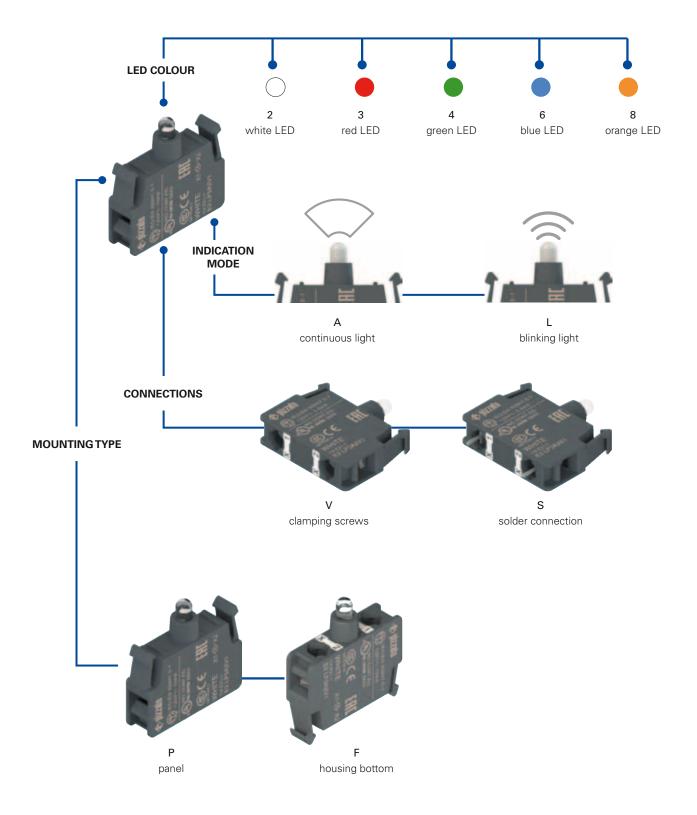
Selection diagram



Code structure

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

E2 LP1A3V1

Mounting type P panel F housing bottom Supply voltage 1 12 ... 30 Vac/dc (high luminosity) 3 120 Vac (high luminosity) 4 230 Vac (high luminosity) 7 120 Vac/dc (standard luminosity) 8 230 Vac/dc (standard luminosity)

<u>*</u>	<u> </u>						
	Protection degree						
	0	IP00 with solder connection					
	1	IP20 screw connection					
(Connec	ction type					
1	V cla	mping screws					
	s so	lder connection (panel mounting only)					
LED	colou	r					
2	white						
3	red						
4	green						
6	blue						
8	orange	e					
icat	ion mo	ode					
СО	ntinuo	us light					
	LED 2 3 4 6 8	Connect V class so LED colou 2 white 3 red 4 green 6 blue 8 orang ication motor blinking li	O IP00 with solder connection 1 IP20 screw connection Connection type V clamping screws S solder connection (panel mounting only) LED colour white red green blue				



Main features

- High luminosity LED
- Three supply voltages:

12 ... 30 Vac/dc, 120 Vac, 230 Vac

- continuous or blinking light
- Panel and base mounting versions

Markings and quality marks:



IMQ approval: CA02.04805 UL approval: F131787

CCC approval: 2013010305631156 RU C-IT ДМ94.В.01024 EAC approval:

Technical data

General data

Protection degree acc. to IEC 60529: IP20 with screw connection IP00 with solder connection

Ambient temperature: -25°C ... +70°C 100.000 hours Endurance:

(at rated voltage and +25 °C ambient temperature) see page 124 Utilization requirements:

LED unit

Cable cross section: min. 1 x 0.5 mm² (1 x AWG 20) max. 2 x 2.5 mm² (2 x AWG 14)

Operating voltages and currents: 12 ... 30 Vac/dc; 5 ... 15 mA (high luminosity) 102 ... 138 Vac; 10 ... 12 mA 195 ... 264 Vac; 9 ... 10 mA

Operating voltages and currents: 102 ... 138 Vac/dc; 2.5 mA (standard luminosity) 195 ... 264 Vac/dc; 2.5 mA

Tightening torque of the terminal screws: 0.6 ... 0.8 Nm

Blinking frequency:

1Hz

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.

In conformity with the requirements of:

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

General data

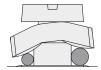
Continuous or blinking light



The LED units can be provided with two different lighting types: continuous or blinking light. The blinking light versions allow a faster identification on the panel of the lit device compared to the continuous light. The particular internal electronic circuit autonomously alternates the ON and OFF

phases without any special electrical connection.

Clamping screw plates

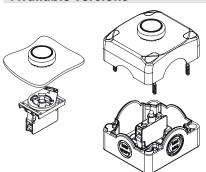


These clamping screw plates of the LED units have a particular "roofing tile" structure and are connected loosely to the clamping screw. In this way, during the wires fixing, the clamping screw plate is able to suit to cables of different diameter and tends to tighten the wires toward the screw instead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

High luminosity LED

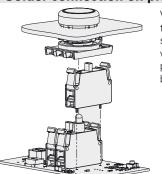
The LED units to combine with the luminous devices feature a highintensity LED (Light Emitting Diodes), which ensures greater visibility. The use of an integrated LED gives greater benefits compared to incandescence lamps because they last longer and absorb less power than the latter. LEDs feature greater reliability, low consumption, and high resistance to vibrations.

Available versions



The LED units of the signalling and command devices feature two types of coupling: panel and base mounting.

Solder connection on printed circuit



Versions with panel mounting of the EROUND series LED units with solder pin are available. In cases where there is no wiring, but a printed circuit, these LED units can be directly welded on the latter.

Characteristics approved by UL

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

- Notes: Use 60° or 75 °C copper (Cu) conductor, rigid or flexible, wire size AWG 12-20. Terminal tightening torque of 7.1 Lb In (0.8 Nm).

Characteristics approved by IMQ

Rated insulation voltage (Ui): 500 V Type of indicator light: Incorporated LED Terminals: screw terminals Rated operating voltage (Ue): 12 ... 30 Vac/dc (5 ... 15 mA), 120 Vac (10 mA), 230 Vac (10 mA)

In conformity with standards: EN 60947-1, EN 60947-5-1:2004 + A1:2009, fundamental requirements of the Low Voltage Directive 2006/95/EC.

Selection table for LED units

5 pcs. packs



		Panel mounting						
I FD colour	Actuator colour	Screw connection						
LED Coloui		Operating 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				

		Panel mounting						
LED colour	Actuator colour	Screw connection						
EED COIOGI		Operating 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				



It is recommended to observe the colour combination of the LEDs with the actuator colours.

Selection table for LED units

5 pcs. packs



		Housing bottom mounting						
LED colour	Actuator colour	Screw connection						
LLD Coloui		Operating 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				

Complete units with LED unit and mounting adapter



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

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

Complete units with LED unit, contact block and mounting adapter



150	Contacts			Panel mounting
LED colour				Operating voltage
	pos. 2	pos. 3	pos. 1	12 30 Vac/dc
white	1NC →	LED	-	E2 AC-XXBC0020 E2 1BAC11 + E2 CP01G2V1 + E2 LP1A2V1
red	1NC →	LED	-	E2 AC-XXBC0037 E2 1BAC11 + E2 CP01G2V1 + E2 LP1A3V1
green	1NC →	LED	-	E2 AC-XXBC0029 E2 1BAC11 + E2 CP01G2V1 + E2 LP1A4V1
blue	1NC →	LED	-	E2 AC-XXBC0045 E2 1BAC11 + E2 CP01G2V1 + E2 LP1A6V1
orange	1NC →	LED	-	E2 AC-XXBC0058 E2 1BAC11 + E2 CP01G2V1 + E2 LP1A8V1





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

Other combinations on request.



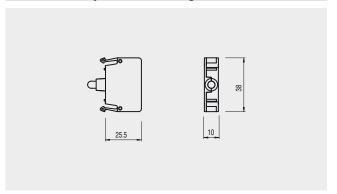
1.50	Contacts			Panel mounting
LED colour				Operating voltage
Coloui	pos. 2	pos. 3	pos. 1	12 30 Vac/dc
white	1NC →	LED	1NO	E2 AC-XXBC0027 E2 1BAC11 + E2 CP01G2V1 + E2 LP1A2V1 + E2 CP10G2V1
red	1NC →	LED	1NO	E2 AC-XXBC0044 E2 1BAC11 + E2 CP01G2V1 + E2 LP1A3V1 + E2 CP10G2V1
green	1NC →	LED	1NO	E2 AC-XXBC0036 E2 1BAC11 + E2 CP01G2V1 + E2 LP1A4V1 + E2 CP10G2V1
blue	1NC →	LED	1NO	E2 AC-XXBC0052 E2 1BAC11 + E2 CP01G2V1 + E2 LP1A6V1 + E2 CP10G2V1
orange	1NC →	LED	1NO	E2 AC-XXBC0060 E2 1BAC11 + E2 CP01G2V1 + E2 LP1A8V1 + E2 CP10G2V1

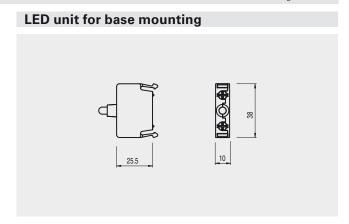
Other combinations on request.

Dimensions

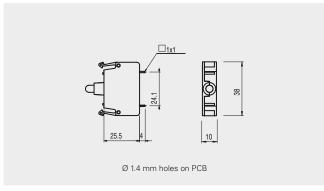
All measures in the drawings are in mm

LED unit for panel mounting





LED unit for panel mounting, solder connection



→ The 2D and 3D files are available at www.pizzato.com