Product data sheet Characteristics

ZB5AW0B41

red light block with body/fixing collar with integral LED 24V 1NO

Main	
Commercial Status	Commercialised
Range of product	Harmony XB5
Product or component type	Complete body/contact assembly and light block
Device short name	ZB5
Fixing collar material	Plastic
Sale per indivisible quantity	1
Contacts type and composition	1 NO
Contacts operation	Slow-break
Connections - terminals	Screw clamp terminals: >= 1 x 0.22 mm² without cable end conforming to EN 60947-1 Screw clamp terminals: <= 2 x 1.5 mm² with cable end conforming to EN 60947-1
Light source	Protected LED
Bulb base	Integral LED
Light block supply	Direct

Red

Complementary

Complementary					
CAD overall width	30 mm				
CAD overall height	42 mm				
CAD overall depth	32 mm				
Terminals description ISO n°1	(13-14)NO				
Product weight	0.032 kg				
Contacts usage	Standard				
Positive opening	Without positive opening				
Operating travel	4.3 mm (total travel) 2.6 mm (NO changing electrical state)				
Operating force	2.3 N (NO changing electrical state)				
Operating torque	0.05 N.m (NO changing electrical state)				
Mechanical durability	5000000 cycles				
Tightening torque	0.81.2 N.m conforming to EN 60947-1				
Shape of screw head	Slotted head compatible with flat Ø 5.5 mm screwdriver Slotted head compatible with flat Ø 4 mm screwdriver Cross head compatible with pozidriv No 1 screwdriver Cross head compatible with Philips no 1 screwdriver				
Contacts material	Silver alloy (Ag/Ni)				
Short circuit protection	10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1				
[Ith] conventional free air thermal current	10 A conforming to EN/IEC 60947-5-1				
[Ui] rated insulation voltage	600 V (degree of pollution: 3) conforming to EN 60947-1				
[Uimp] rated impulse withstand voltage	6 kV conforming to EN 60947-1				
[le] rated operational current	1.2 A at 600 V, AC-15, A600 conforming to EN/IEC 60947-5-1 0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.27 A at 250 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1 3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1				

Light source colour

Electrical durability	1000000 cycles, DC-13, 0.5 A at 24 V, operating rate: 3600 cyc/h, load factor: 0.9				
•	conforming to EN/IEC 60947-5-1 appendix C				
	1000000 cycles, DC-13, 0.2 A at 110 V, operating rate: 3600 cyc/h, load factor:				
	0.5 conforming to EN/IEC 60947-5-1 appendix C				
	1000000 cycles, AC-15, 4 A at 24 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C				
	1000000 cycles, AC-15, 3 A at 120 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C				
	1000000 cycles, AC-15, 2 A at 230 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C				
Electrical reliability IEC 60947-5-4	Λ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4				
	Λ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4				
Signalling type	Steady				
[Us] rated supply voltage	24 V AC/DC, 50/60 Hz				
Supply voltage limits	21.626.4 V AC				
	19.230 V DC				
Current consumption	18 mA				
Service life	100000 h at rated voltage and 25 °C				
Surge withstand	1 kV conforming to IEC 61000-4-5				
Environment					
Protective treatment	TH				

Environment					
Protective treatment	TH				
Ambient air temperature for storage	-4070 °C				
Ambient air temperature for operation	-2570 °C				
Class of protection against electric shock	Class II conforming to IEC 60536				
Standards	CSA C22-2 No 14 EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 JIS C 4520 UL 508 BV CSA DNV GL LROS (Lloyds register of shipping) RINA UL listed				
Product certifications					
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6				
Shock resistance	50 gn for 11 ms half sine wave acceleration conforming to IEC 60068-2-27 30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27				
Resistance to fast transients	2 kV conforming to IEC 61000-4-4				
Resistance to electromagnetic fields	10 V/m conforming to IEC 61000-4-3				
Resistance to electrostatic discharge	8 kV in free air (in insulating parts) conforming to IEC 61000-2-6 6 kV on contact (on metal parts) conforming to IEC 61000-2-6				
Electromagnetic emission	Class B conforming to IEC 55011				

Contractual warranty

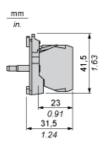
Period 18 months	
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Product data sheet Dimensions Drawings

ZB5AW0B41

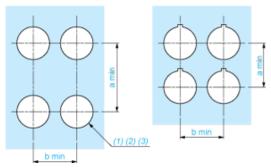
Dimensions



ZB5AW0B41

Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

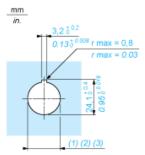
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. Ø22.5 mm recommended (Ø22.3 $_0$ $^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_0$ $^{+0.016}$)

Connections	a in mm	a in in.	b in mm	b in in.
By screw clamp terminals or plug-in connector	40	1.57	30	1.18
By Faston connectors	45	1.77	32	1.26
On printed circuit board	30	1.18	30	1.18

Detail of Lug Recess



- (1) Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- Ø22.5 mm recommended (Ø22.3 $_0$ ^{+0.4}) / Ø0.89 in. recommended (Ø0.88 in. $_0$ ^{+0.016})