Product data sheet Characteristics

ZB4BW0B45

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



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Range of product	Harmony XB4
Product or component type	Complete body/contact assembly and light block
Device short name	ZB4
Fixing collar material	Zamak
Sale per indivisible quantity	1
Head type	Standard
Contacts type and composition	1 NO + 1 NC
Contact operation	Slow-break
Connections - terminals	Screw clamp terminals : $<= 2 \times 1.5 \text{ mm}^2$ with cable end conforming to EN 60947-1 Screw clamp terminals : $>= 1 \times 0.22 \text{ mm}^2$ without cable end conforming to EN 60947-1
Light source	Protected LED
Bulb base	Integral LED
Light block supply	Direct
Light source colour	Red
[Us] rated supply voltage	24 V AC/DC, 50/60 Hz

Complementary

Complementary		2
CAD overall width	30 mm	
CAD overall height	47 mm	ء <u>٥</u> ت
Terminals description ISO n°1	(11-12)NC	
Product weight	0.074 kg	<u> </u>
Contacts usage	Standard	tr
Positive opening	With positive opening conforming to EN/IEC 60947-5-1 appendix K	
Operating travel	1.5 mm (NC changing electrical state) 2.6 mm (NO changing electrical state) 4.3 mm (total travel)	od intended
Operating force	2 N (NC changing electrical state) 2.3 N (NO changing electrical state)	. <u>v</u>
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	Cross head compatible with Philips no 1 screwdriver Cross head compatible with pozidriv No 1 screwdriver	

	Slotted head compatible with flat \emptyset 4 mm screwdriver Slotted head compatible with flat \emptyset 5.5 mm 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	3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1 0.1 A at 600 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 0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 1.2 A at 600 V, AC-15, A600 conforming to EN/IEC 60947-5-1		
Electrical durability	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 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, 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, 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, DC-13, 0.5 A at 24 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/ IEC 60947-5-1 appendix C		
Electrical reliability	Λ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4 Λ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4		
Signalling type	Steady		
Supply voltage limits	19.230 V DC 21.626.4 V AC		
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	тн		
Ambient air temperature for storage	-4070 °C		
Ambient air temperature for operation	-4070 °C		
Electrical shock protection class	Class I conforming to IEC 60536		
Standards	EN/IEC 60947-5-4 EN/IEC 60947-1 JIS C 4520 UL 508 EN/IEC 60947-5-5 CSA C22.2 No 14 EN/IEC 60947-5-1		
Product certifications	BV LROS (Lloyds register of shipping) DNV UL listed CSA GL RINA		
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6		
Shock resistance	30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) for 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	6 kV on contact (on metal parts) conforming to IEC 61000-2-6 8 kV in free air (in insulating parts) conforming to IEC 61000-2-6		
Electromagnetic emission	Class B conforming to IEC 55011		

Contractual warranty

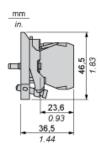
Warranty period

18 months

Product data sheet Dimensions Drawings

ZB4BW0B45

Dimensions



ZB4BW0B45

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	Connection by Faston Connectors
(2)	(5)

- Diameter on finished panel or support
- 40 mm min. / 1.57 in. min.
- 30 mm min. / 1.18 in. min.
- (1) (2) (3) (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0$ $^{+0.4}$ / 0.88 in. $_0$ $^{+0.016})$
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.