Product data sheet Characteristics

ZB5AW0B51

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





Main

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
Head type	Standard
Contacts type and composition	1 NO
Contact operation	Slow-break
Connections - terminals	Screw clamp terminals, <= 2 x 1.5 mm ² with cable end conforming to EN 60947-1 Screw clamp terminals, >= 1 x 0.22 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	Orange

Complementary

1				
CAD overall width	30 mm			
CAD overall height	42 mm			
CAD overall depth	32 mm			
Terminals description ISO n°1	(13-14)NO			
Net weight	0.032 kg			
Contacts usage	Standard			
Positive opening	Without			
Operating travel	2.6 Mm (NO changing electrical state) 4.3 mm (total travel)			
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	Cross compatible with Philips no 1 screwdriver Cross compatible with pozidriv No 1 screwdriver Slotted compatible with flat Ø 4 mm screwdriver Slotted compatible with flat Ø 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 (pollution degree 3) conforming to EN 60947-1			
[Uimp] rated impulse withstand voltage	EN 60947-1 6 kV			
[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 and 1 mA in clean environment conforming to EN/IEC 60947-5-4 Λ < 10exp(-8) at 17 V and 5 mA in clean environment conforming to EN/IEC 60947-5-4
Signalling type	Steady
[Us] rated supply voltage	24 V AC/DC at 50/60 Hz
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
Device presentation	Basic sub-assemblies

Environment

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Protective treatment	TH			
Ambient air temperature for storage	-4070 °C			
Ambient air temperature for operation	-4070 °C			
Electrical shock protection class	Class II conforming to IEC 60536			
Standards	JIS C8201-5-1 EN/IEC 60947-5-1 EN/IEC 60947-1 EN/IEC 60947-5-4 UL 508 CSA C22.2 No 14 JIS C8201-1			
Product certifications	GL UL listed LROS (Lloyds register of shipping) DNV RINA CSA BV			
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			

Offer Sustainability

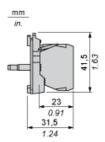
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	₫Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile

Circularity Profile	End Of Life Information		
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		
Contractual warranty			
Warranty	18 months		

Product data sheet Dimensions Drawings

ZB5AW0B51

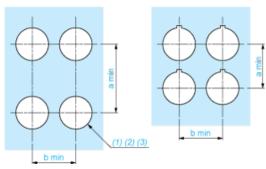
Dimensions



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

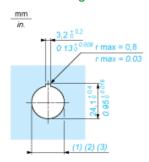
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
 (3) 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



- 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})