Product data sheet Characteristics

ZB5AW0B31TQ light block ZB4BW0B31 sold by 100

Product availability: Non-Stock - Not normally stocked in distribution facility



Main

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	100
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 ca- ble end conforming to EN 60947-1
Light source	Protected LED
Bulb base	Integral LED
Light block supply	Direct
Light source colour	Green

Complementary

Complementary				
CAD overall width	1.18 in (30 mm)			
CAD overall height	1.65 in (42 mm)			
CAD overall depth	1.26 in (32 mm)			
Terminals description ISO n°1	(13-14)NO			
Product weight	0.07 lb(US) (0.032 kg)			
Contacts usage	Standard			
Positive opening	Without positive opening			
Operating travel	0.1 in (2.6 mm) (NO changing electrical state) 0.17 in (4.3 mm) (total travel)			
Operating force	2.3 N (NO changing electrical state)			
Operating torque	0.44 lbf.in (0.05 N.m) (NO changing electrical state)			
Mechanical durability	5000000 cycles			
Tightening torque	7.0810.62 lbf.in (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 fac- tor: 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				
[Us] rated supply voltage	24 V AC/DC, 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				

Environment

Protective treatment	ТН				
Ambient air temperature for storage	-40158 °F (-4070 °C)				
Ambient air temperature for operation	-40158 °F (-4070 °C)				
Electrical shock protection class	Class II conforming to IEC 60536				
Standards	EN/IEC 60947-5-1 CSA C22.2 No 14 EN/IEC 60947-1 UL 508 JIS C 4520 EN/IEC 60947-5-4				
Product certifications	RINA CSA DNV UL listed LROS (Lloyds register of shipping) BV GL				
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6				
Shock resistance	30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 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	9.14 V/yd (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				
Customizable	No				

Ordering and shipping details

Category	22469 - PUSHBUTTON,22MM ACCESSORIES-NEW
Discount Schedule	CS2
GTIN	003389110891270
Nbr. of units in pkg.	100
Package weight(Lbs)	0.01
Returnability	Ν
Country of origin	FR

WARNING: This product can expose you to chemicals including:
Lead and lead compounds, which is known to the State of California to cause can- cer and birth defects or other reproductive harm.
For more information go to www.p65warnings.ca.gov

Contractual warranty

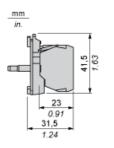
Warranty period

18 months

Product data sheet Dimensions Drawings

ZB5AW0B31TQ

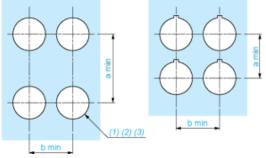
Dimensions



ZB5AW0B31TQ

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

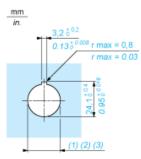


Diameter on finished panel or support (1)

- 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. $_0^{+0.016}$) (2)
- (3)

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. (2)
- (3) Ø22.5 mm recommended (Ø22.3 $_{0}^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_{0}^{+0.016}$)

Mouser Electronics

Authorized Distributor

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Schneider Electric: ZB5AW0B31TQ