Product data sheet Characteristics

ZB6ZB15BTQ

light block ZB6ZB15B sold by 100



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Range of product	Harmony XB6	
Product or component type	Complete body for illuminated push-button	
Device short name	ZB6	
Fixing collar material	Plastic	
Sale per indivisible quantity	10	3
Contacts type and composition	1 NO + 1 NC	1
Contact operation	Slow-break	
Connections - terminals	Faston connector (2.8 x 0.5 mm)	
Light source	LED	
Bulb base	Integral LED	<u>.</u>
Light source colour	White	
[Us] rated supply voltage	1224 V AC/DC	

Complementary

Complementary	·
Contacts usage	Standard
Positive opening	With positive opening conforming to EN/IEC 60947-5-1 appendix K
Operating travel	1 mm (NC changing electrical state) 2 mm (NO changing electrical state) 4.3 mm (total travel)
Operating force	1.6 N (NO changing electrical state) 2.5 N (NC changing electrical state)
Contacts material	Silver alloy (Ag/Ni)
Short-circuit protection	6 A cartridge fuse type gG conforming to EN/IEC 60947-5-1
[Ui] rated insulation voltage	250 V (degree of pollution: 3) conforming to EN/IEC 60947-1
[Uimp] rated impulse withstand voltage	4 kV conforming to EN/IEC 60947-1
[le] rated operational current	3 A at 120 V, AC-15, B300 1.5 A at 240 V, AC-15, B300 0.1 A at 250 V, DC-13, R300 0.22 A at 125 V, DC-13, R300
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, DC-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	Λ = 10exp(-8) at 5 V, 1 mA with confidence level of 90 % conforming to EN/IEC 60947-5-4

Signalling type	Steady	
Supply voltage limits	630 V AC/DC	
Current consumption	15 mA	
Surge withstand	1 kV direct contact conforming to IEC 61000-4-5 2 kV in free air conforming to IEC 61000-4-5	
Compatibility code	ZB6	

Environment

Protective treatment	TC	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-2570 °C	
Electrical shock protection class	Class II conforming to IEC 61140	
Standards	EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-5 JIS C 4520 JIS C 852 UL 508 CSA C22.2 No 14	
Product certifications	CCC CSA GOST UL	
Vibration resistance	+/- 3 mm (f = 2500 Hz) conforming to IEC 60068-2-6 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

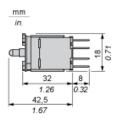
Warranty period	18 months	

Product data sheet Dimensions Drawings

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Body for Illuminated Pushbutton

Dimensions



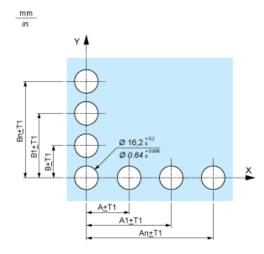
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Product data sheet Mounting and Clearance

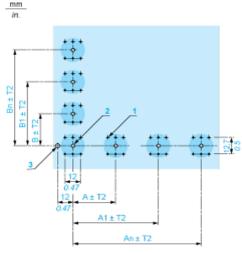
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Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

Front Panel Cut-out (Viewed from Installer's Side)



Printed Circuit Board Drillings (Viewed from Electrical Block Side)



- A 24 mm/0.94 in. minimum for rectangular heads, 18 mm/0.71 in. minimum for square or circular heads
- B 18 mm/0.71 in. minimum
- (1) 6 x Ø 1.1 mm / 6 x Ø 0.04 in. holes.
- 1 x \varnothing 2.6° $_{-0.2}$ mm / 1 x \varnothing 0.10° $_{-0.008}$ in. hole for locating pin, only when using socket adaptor ZB6Y010.
- (3) $1 \times \emptyset 3.2^{\circ}_{-0.2} \text{ mm} / 1 \times \emptyset 0.13^{\circ}$

-0.008 in. hole for fixing of printed circuit board onto the front panel using body bracket ZB6Y011. This hole must be drilled on the left-hand side, when he

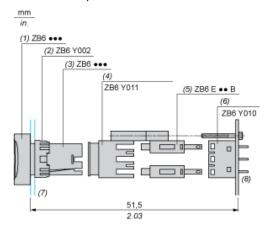
General tolerances of the panel and printed circuit board: T1, T2: T1 + T2 = 0.3 mm/0.01 in. maximum.

Installation precautions:

Thickness of printed circuit board: 1.6 mm/0.06 in. minimum.

Mounting with Body Bracket

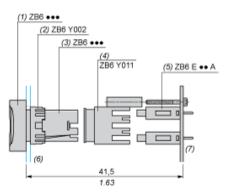
With socket adaptor ZB6Y010



- (1) (2) (3) Head
- Nut
- Body
- (4) (5) Body bracket
- Contact block
- (6) Socket adaptor (7) Panel
- (8) Printed circuit

Direct mounting without socket adaptor ZB6Y010





- Head
- Nut
- Body
- (1) (2) (3) (4) (5) Body bracket
- Contact block
- (6) Panel
- (7) Printed circuit

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