

# ZB6EB4A

red light block with body/fixing collar with  
integral LED 12...24V



## Main

|                               |                                            |
|-------------------------------|--------------------------------------------|
| Range of product              | Harmony XB6                                |
| Product or component type     | Complete body for pilot lights             |
| Device short name             | ZB6                                        |
| Sale per indivisible quantity | 5                                          |
| Connections - terminals       | Pins for printed circuit board(1 x 0.5 mm) |
| Light source                  | LED                                        |
| Bulb base                     | Integral LED                               |
| Light block supply            | Direct                                     |
| Light source colour           | Red                                        |
| [Us] rated supply voltage     | 12...24 V AC/DC                            |

## Complementary

|                                        |                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------|
| CAD overall height                     | 16 mm                                                                                       |
| CAD overall depth                      | 58 mm                                                                                       |
| Terminals description ISO n°1          | (X1-X2)PL                                                                                   |
| Product weight                         | 0.003 kg                                                                                    |
| Operating position                     | Any position                                                                                |
| [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 60947-1                                                               |
| Signalling type                        | Steady                                                                                      |
| Supply voltage limits                  | 6...30 V AC/DC                                                                              |
| Current consumption                    | 15 mA                                                                                       |
| Surge withstand                        | 1 kV in contact conforming to IEC 61000-4-5<br>2 kV in free air conforming to IEC 61000-4-5 |

## Environment

|                                            |                                                                                                                                                      |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective treatment                       | TC                                                                                                                                                   |
| Ambient air temperature for storage        | -40...70 °C                                                                                                                                          |
| Ambient air temperature for operation      | -25...70 °C                                                                                                                                          |
| Class of protection against electric shock | Class II conforming to IEC 61140                                                                                                                     |
| Standards                                  | CSA C22-2 No 14<br>EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-5<br>JIS C 4520<br>JIS C 852<br>UL 508                                       |
| Product certifications                     | CCC<br>CSA<br>GOST<br>UL                                                                                                                             |
| Vibration resistance                       | +/- 3 mm (f = 2...500 Hz) conforming to IEC 60068-2-6<br>5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6                                           |
| Shock resistance                           | 30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27<br>50 gn for 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       | 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<br>8 kV in free air (in insulating parts) conforming to IEC 61000-2-6                   |

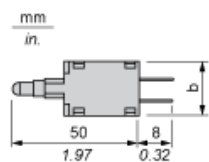
|                          |                                 |
|--------------------------|---------------------------------|
| Electromagnetic emission | Class B conforming to IEC 55011 |
| RoHS EUR status          | Compliant                       |
| RoHS EUR conformity date | 0727                            |

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Body for Pilot Light

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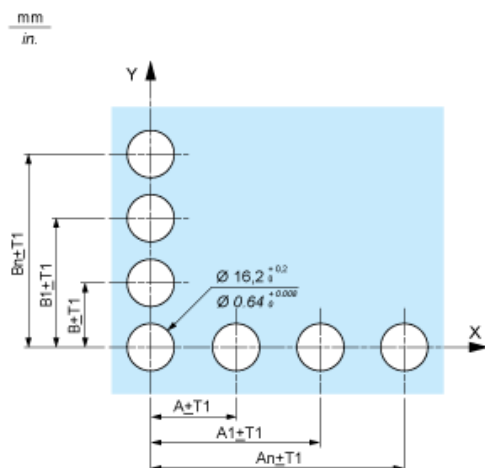
Dimensions



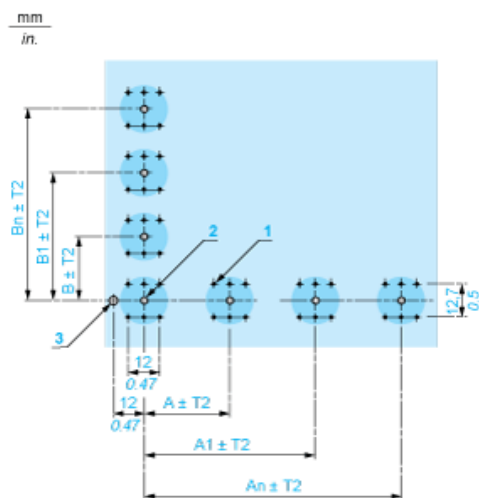
b 15.5 mm/0.61 in.

## 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.
- (2) 1 x Ø 2.6<sup>0</sup><sub>-0.2</sub> mm / 1 x Ø 0.10<sup>0</sup><sub>-0.008</sub> in. hole for locating pin, only when using socket adaptor ZB6Y010.
- (3) 1 x Ø 3.2<sup>0</sup><sub>-0.2</sub> mm / 1 x Ø 0.13<sup>0</sup><sub>-0.008</sub> 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 heads are positioned at the normal angle. Fit a body bracket ZB6Y011 every 72 mm/2.83 in. maximum for cut-outs on 24 mm/0.94 in. centres (rectangular heads) and 54 mm/2.13 in. maximum for cut-outs on 18 mm/0.71 in. centres (square or circular heads).

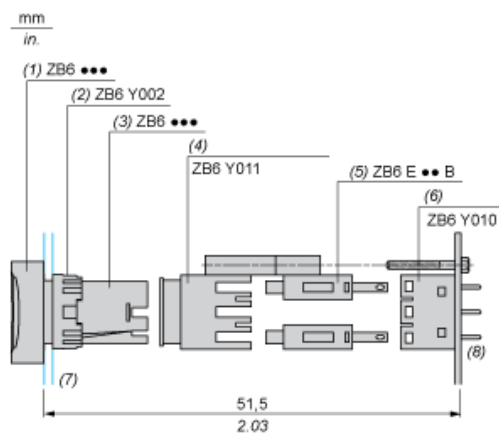
General tolerances of the panel and printed circuit board: T1, T2: T1 + T2 = 0.3 mm/0.01 in. maximum.

Installation precautions:

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

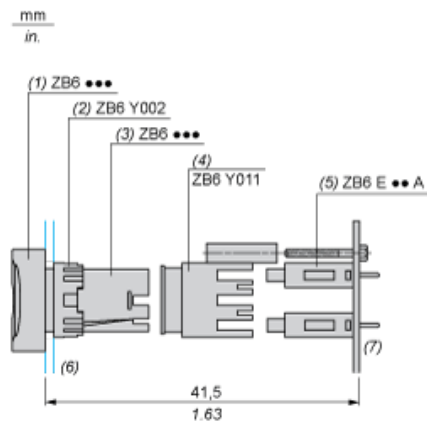
## Mounting with Body Bracket

With socket adaptor ZB6Y010



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

Direct mounting without socket adaptor ZB6Y010



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