



## Main

|                               |                                          |
|-------------------------------|------------------------------------------|
| Range of product              | Harmony XB6                              |
| Product or component type     | Head for non-illuminated pushbutton type |
| Device short name             | ZB6                                      |
| Bezel material                | Plastic                                  |
| Mounting diameter             | 16 mm                                    |
| Sale per indivisible quantity | 1                                        |
| Shape of signaling unit head  | Square                                   |
| Type of operator              | Spring return                            |
| Operator profile              | Green flush unmarked                     |

## Complementary

|                    |          |
|--------------------|----------|
| CAD overall width  | 18 mm    |
| CAD overall height | 18 mm    |
| CAD overall depth  | 33 mm    |
| Product weight     | 0.016 kg |

## Environment

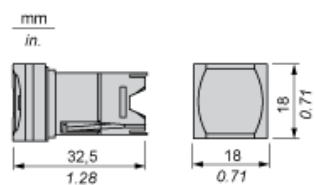
|                                            |                                                                                                                                                                                                                    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                   |
| IP degree of protection                    | IP65 conforming to IEC 60529                                                                                                                                                                                       |
| NEMA degree of protection                  | NEMA 13 conforming to CSA C22-2 No 94<br>NEMA 13 conforming to UL 50<br>NEMA 4 conforming to CSA C22-2 No 94<br>NEMA 4 conforming to UL 50<br>NEMA 4X conforming to CSA C22-2 No 94<br>NEMA 4X conforming to UL 50 |
| 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                                                               |
| RoHS EUR status                            | Compliant                                                                                                                                                                                                          |
| RoHS EUR conformity date                   | 0727                                                                                                                                                                                                               |

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Square Head for Illuminated or Non Illuminated Pushbutton

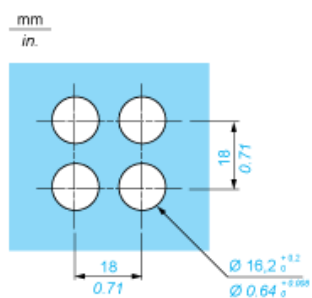
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Dimensions



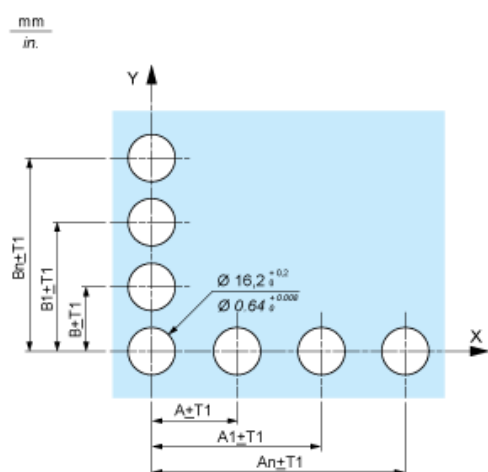
## Panel Cut-out

For Square or Circular Head

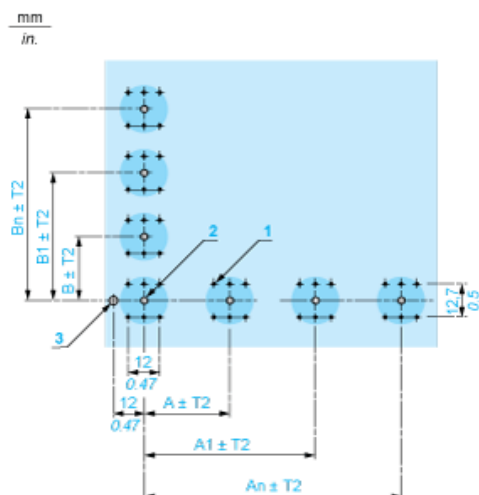


## Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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).

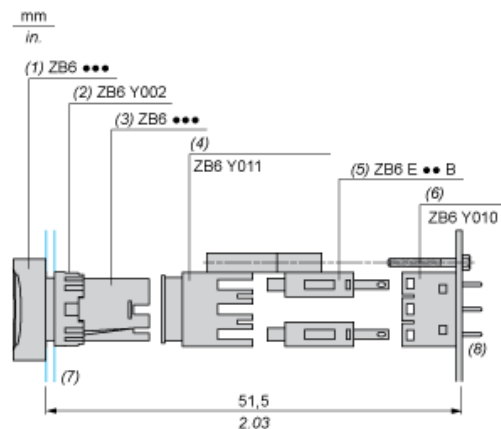
General tolerances of the panel and printed circuit board: T1, T2: T1 + T2 = 0.3 mm/0.01 in. maximum.

Installation precautions:

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

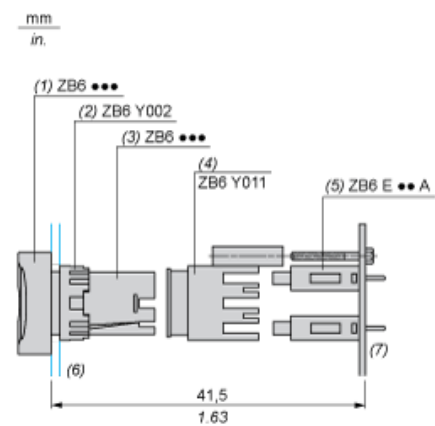
## Mounting with Body Bracket

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