


# Product datasheet

Specifications



## illuminated pushbutton head ZB6DF3 sold by 100

ZB6DF3TQ

 **Discontinued on:** 1 Nov 2020

 **Discontinued**

### Main

Range Of Product	Harmony XB6
Product Or Component Type	Head for illuminated push-button
Product Compatibility	Integral LED
Device Short Name	ZB6
Bezel Material	Plastic
Mounting Diameter	16 mm
Sale Per Indivisible Quantity	10
Shape Of Signaling Unit Head	Rectangular
Type Of Operator	latching
Operator Profile	Green flush, unmarked

### Complementary

Resistance To High Pressure Washer	7000000 Pa at 55 °C, distance : 0.1 m
Mechanical Durability	300000 cycles

### Environment

Protective Treatment	TC
Ambient Air Temperature For Storage	-40...70 °C
Ambient Air Temperature For Operation	-25...70 °C
Electrical Shock Protection Class	Class II conforming to IEC 61140
Ip Degree Of Protection	IP65 conforming to IEC 60529
Nema Degree Of Protection	NEMA 13 conforming to UL 50 NEMA 4 conforming to UL 50 NEMA 4X conforming to UL 50 NEMA 13 conforming to CSA C22.2 No 94 NEMA 4 conforming to CSA C22.2 No 94 NEMA 4X conforming to CSA C22.2 No 94
Standards	CSA C22.2 No 14 JIS C 852 EN/IEC 60947-5-1 EN/IEC 60947-5-5 EN/IEC 60947-1 JIS C8201-5-1 UL 508 JIS C8201-1

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Product Certifications	UL
	GOST
	CCC
	CSA
Vibration Resistance	+/- 3 mm (f= 2...500 Hz) conforming to IEC 60068-2-6 5 gn (f= 2...500 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

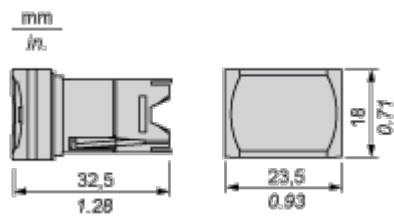
## Contractual warranty

Warranty	18 months
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Dimensions Drawings

Rectangular Head for Illuminated or Non Illuminated Pushbutton

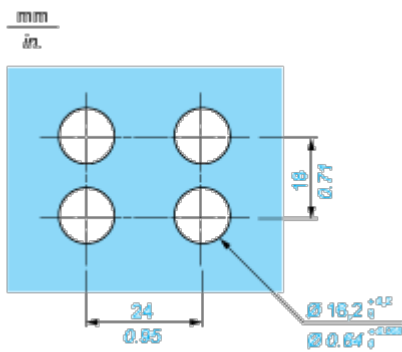
Dimensions



Mounting and Clearance

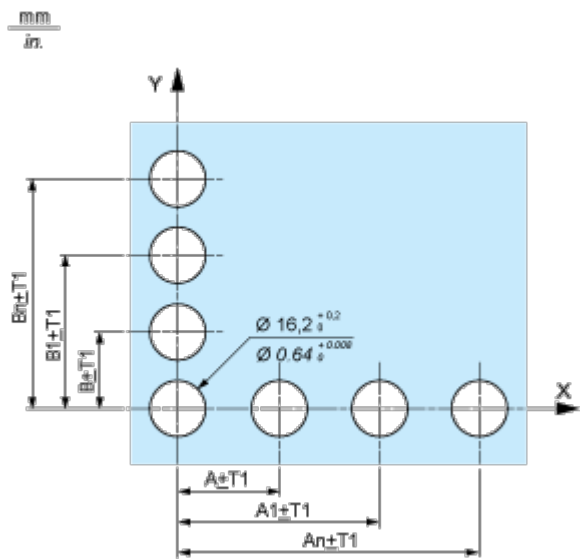
Panel Cut-out

For Rectangular Head

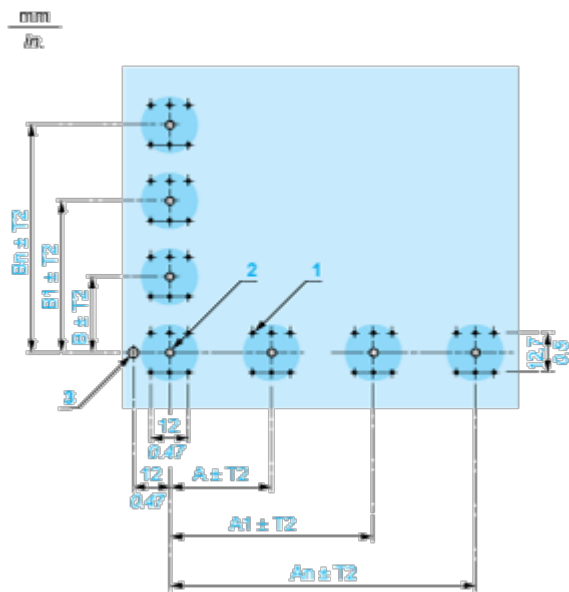


Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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



Printed Circuit Board Drillings (Viewed from Electrical Block Side)



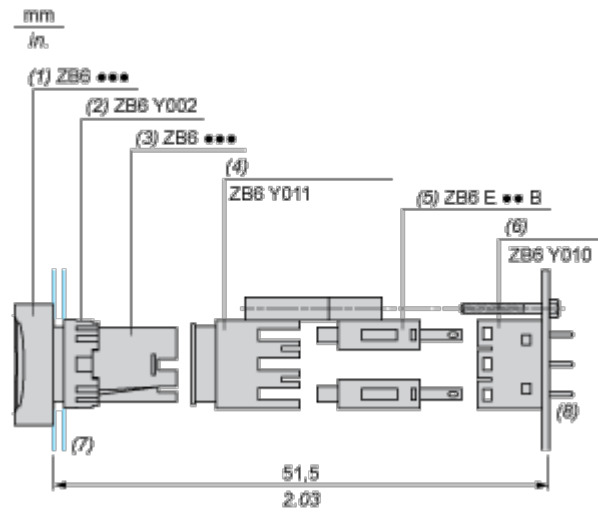
- A 24 mm/0.94 in. minimum for rectangular heads, 18 mm/0.71 in. minimum for square or circular heads
- B 18 mm/0.71 in. minimum
- (1) 6 x  $\varnothing 1.1$  mm / 6 x  $\varnothing 0.04$  in. holes.
- (2)  $1 \times \varnothing 2.6^{0}_{-0,2}$  mm /  $1 \times \varnothing 0.10^{0}_{-0,008}$  in. hole for locating pin, only when using socket adaptor ZB6Y010.
- (3)  $1 \times \varnothing 3.2^{0}_{-0,2}$  mm /  $1 \times \varnothing 0.13^{0}_{-0,008}$  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 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.

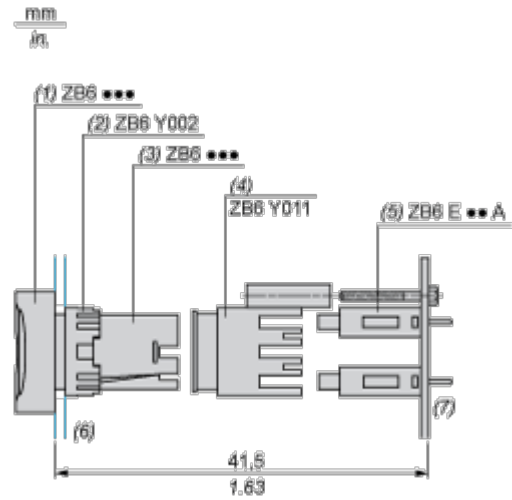
Mounting with Body Bracket

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

