# **Product data sheet**

Specification





Head for non illuminated push button, Harmony XB5, yellow projecting pushbutton Ø22 mm push unmarked

ZB5AH5

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

Price\*: 26.40 USD

#### Main

Range Of Product	Harmony XB5	
Product Or Component Type	Head for non-illuminated push-button	
Device Short Name	ZB5	
Bezel Material	Dark grey plastic	
Mounting Diameter	0.87 in (22 mm)	
Head Type	Standard	
Sale Per Indivisible Quantity	1	
Shape Of Signaling Unit Head	Round	
Type Of Operator	push-push	
Operator Profile	Yellow projecting, unmarked	

## Complementary

Cad Overall Width	1.14 in (29 mm)
Cad Overall Height	1.14 in (29 mm)
Cad Overall Depth	1.30 in (33 mm)
Net Weight	0.04 lb(US) (0.018 kg)
Mechanical Durability	2000000 cycles
Station Name	XALD 15 cut-outs XALK 25 cut-outs
Electrical Composition Code	C11 3 single front mounting C15 1 single front mounting SF1 3 single front mounting SR1 3 single rear mounting C9 3 single front mounting
Device Presentation	Basic element

### **Environment**

Protective Treatment	тн
Ambient Air Temperature For Storage	-40158 °F (-4070 °C)
Ambient Air Temperature For Operation	-40158 °F (-4070 °C)
Overvoltage Category	Class II IEC 60536

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Ip Degree Of Protection	IP66 IEC 60529 IP67 IP69 IP69K	
Nema Degree Of Protection	NEMA 13 NEMA 4X	
Resistance To High Pressure 1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m  Washer		
Ik Degree Of Protection	IK03 conforming to IEC 50102	
Product Certifications	GL BV DNV UL Listed CSA LROS (Lloyds register of shipping)	
Shock Resistance	30 gn 18 ms) half sine wave acceleration IEC 60068-2-27 50 gn 11 ms) half sine wave acceleration IEC 60068-2-27	
Vibration Resistance 5 gn 2500 Hz)IEC 60068-2-6		

## Ordering and shipping details

Category	US10CS222467
Discount Schedule	0CS2
Gtin	3389110905953
Returnability	No
Country Of Origin	MX

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.13 in (5.4 cm)
Package 1 Width	1.34 in (3.4 cm)
Package 1 Length	1.73 in (4.4 cm)
Package 1 Weight	0.63 oz (18.0 g)

## **Contractual warranty**

Warranty 18 months



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**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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RoHS/REACh

## Well-being performance

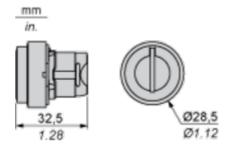
<b>②</b>	Reach Free Of Svhc	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes

#### **Certifications & Standards**

California Proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov			
China Rohs Regulation	China RoHS declaration			
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
Reach Regulation	REACh Declaration			

## **Dimensions Drawings**

## **Dimensions**

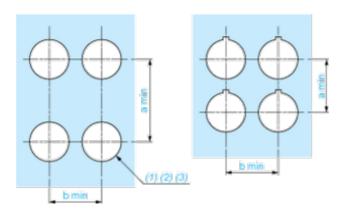


#### **ZB5AH5**

#### Mounting and Clearance

Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

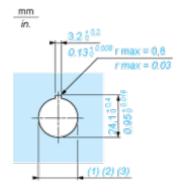
#### Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended (Ø22.3  $_0^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 in.  $_0^{+0.016}$ )

				-
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

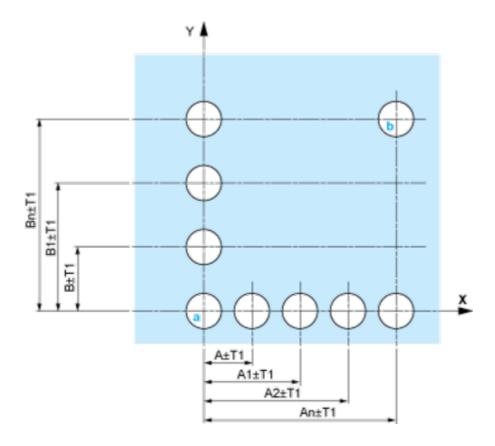
#### **Detail of Lug Recess**



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended (Ø22.3  $_0^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 in.  $_0^{+0.016}$ )

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

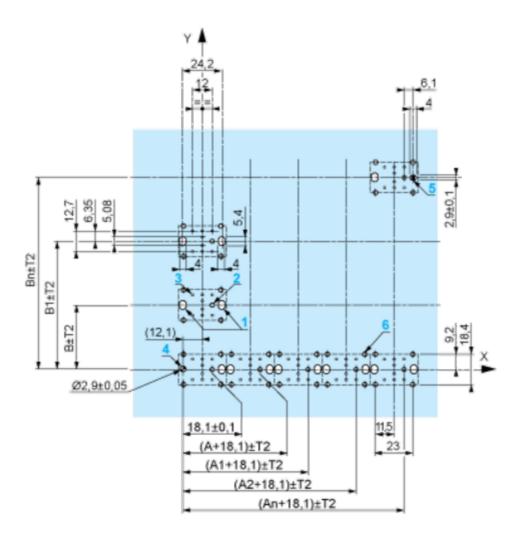
#### Panel Cut-outs (Viewed from Installer's Side)



**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

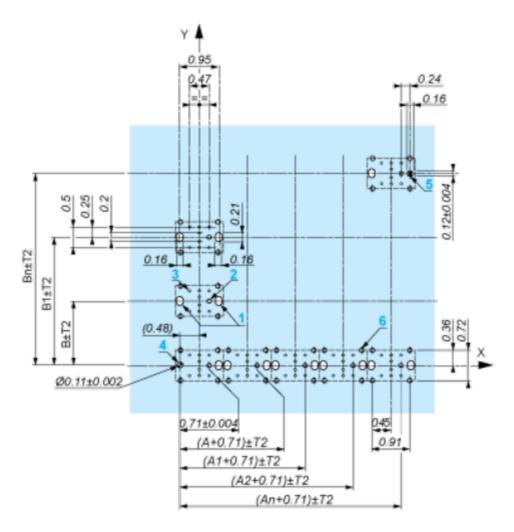
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



A: 30 mm min. B: 40 mm min. Dimensions in in.

#### **ZB5AH5**



A: 1.18 in. min. **B:** 1.57 in. min.

#### General Tolerances of the Panel and Printed Circuit Board

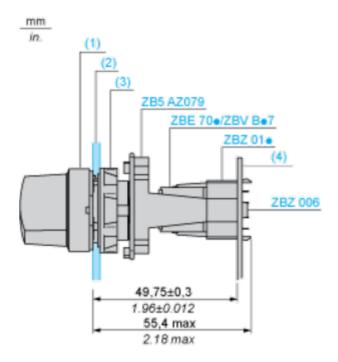
The cumulative tolerance must not exceed 0.3 mm / 0.012 in.: T1 + T2 = 0.3 mm max.

#### **Installation Precautions**

- $_{\bullet}$  Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm ± 0.1 / 0.88 in. ± 0.004
- Orientation of body/fixing collar ZB5AZ009: ± 2 30' (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB5AZ079 fixing collar/pillar and its fixing screws:
  - $_{\circ}\;$  every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - o with each selector switch head (ZB5AD•, ZB5AJ•, ZB5AG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.

#### **ZB5AH5**



- (1) Head ZB5AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

#### Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

Dimensions An + 18.1 relate to the Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ01•.

## **Product data sheet**

### ZB5AH5

**Technical Description** 

Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



## **Electrical Composition Corresponding to Code C15**

1 N/O



1 N/C



1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C



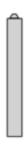
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## Legend

Single contact



Double contact



Light block



Possible location

