

Head for illuminated push button, Harmony XB5, plastic, red projecting, 22mm, universal LED, spring return, plain lens

ZB5AW143

Important message: A change in appearance may be noted on the product but does not affect its use in terms of function and safety. This makes it compatible with our Universal LED blocks

Main

Range Of Product	Harmony XB5
Product Or Component Type	Head for illuminated push-button
Device Short Name	ZB5
Product Compatibility	Universal LED
Bezel Material	Dark grey plastic
Mounting Diameter	22 mm
Sale Per Indivisible Quantity	1
Head Type	Standard
Shape Of Signaling Unit Head	Round
Type Of Operator	spring return
Operator Profile	Red projecting, unmarked
Operator Additional Information	With plain lens

Complementary

Cad Overall Width	29 mm					
Cad Overall Height	29 mm					
Cad Overall Depth	33 mm					
Net Weight	0.018 kg					
Resistance To High Pressure Washer	7000000 Pa at 55 °C, distance : 0.1 m					
Mechanical Durability	10000000 cycles					
Main Group	Illum push-button					
Group Of Product	Proj push integral LED					
Station Name	XALD 15 cut-outs XALK 25 cut-outs					
Cap/Operator Or Lens Colour	Red					
Marking	Unmarked					
Electrical Composition Code	M1 for <6 contacts using single blocks in front mounting with integral LED M2 for <6 contacts using single and double blocks in front mounting with integral LED M6 for <2 contacts using single blocks in front mounting with integral LED and transformer M10 for <2 contacts using single blocks in front mounting with integral LED MF1 for <2 contacts using single blocks in front mounting with integral LED					

MR1 for <2 contacts using single blocks in rear mounting with integral LED

Device Presentation Basic sub-assemblies

Environment

Protective Treatment	TC						
Ambient Air Temperature For Storage	-4070 °C						
Ambient Air Temperature For Operation	-4070 °C						
Overvoltage Category	Class II conforming to IEC 60536						
Ip Degree Of Protection	IP66 conforming to IEC 60529 IP69 IP69K						
Nema Degree Of Protection	NEMA 13 NEMA 4X						
Ik Degree Of Protection	IK05 conforming to EN 50102						
Standards	UL 508 EN/IEC 60947-1 CSA C22.2 No 14 EN/IEC 60947-5-1 GB 14048.5 EN/IEC 60947-5-4 JIS C8201-5-1 JIS C8201-1						
Product Certifications	CSA UL listed LROS (Lloyds register of shipping) BV GL DNV						
Vibration Resistance	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						

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.6 cm
Package 1 Width	4.7 cm
Package 1 Length	5.3 cm
Package 1 Weight	18.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	300
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	5.853 kg

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

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

Learn more about Green Premium >

Guide to assess a product's sustainability >



RoHS/REACh

Well-being performance

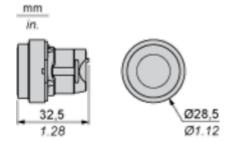


Certifications & Standards

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

Dimensions Drawings

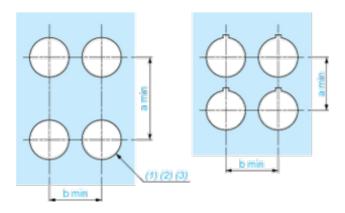
Dimensions



Mounting and Clearance

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

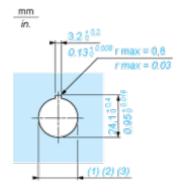
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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. $_0^{+0.016}$)

v				
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

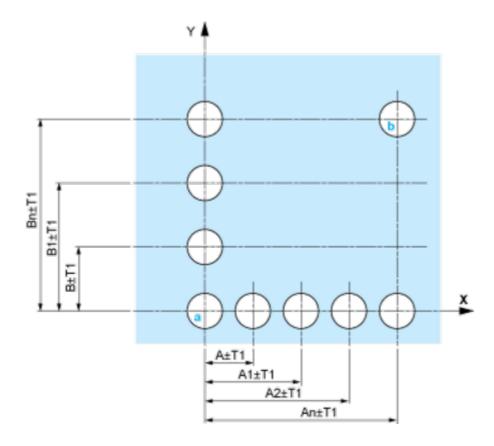
Detail of Lug Recess



- (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

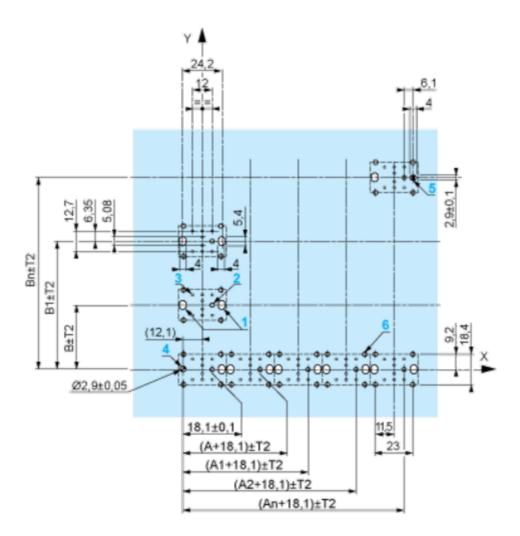
Panel Cut-outs (Viewed from Installer's Side)



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

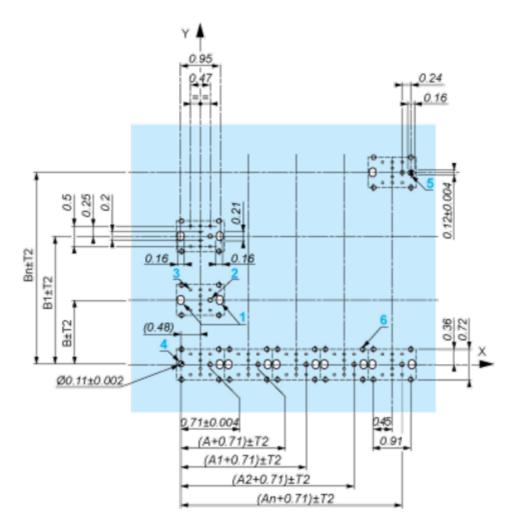
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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

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

General Tolerances of the Panel and Printed Circuit Board

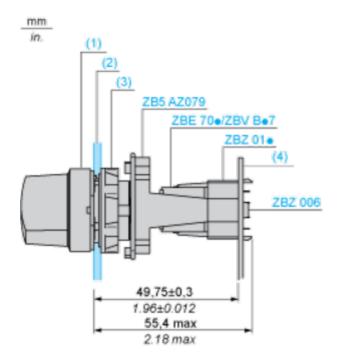
The cumulative tolerance must not exceed 0.3 mm / 0.012 in.: T1 + T2 = 0.3 mm max.

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 ${\bf a}$ and ${\bf b}$ are diagonally opposed and must align with those marked ${\bf 4}$ and ${\bf 5}$.

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- (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•

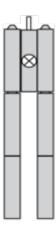
Dimensions An + 18.1 relate to the Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ01•.

Product data sheet

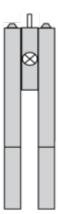
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Technical Description

Electrical Composition Corresponding to Codes M1 and M7



Electrical Composition Corresponding to Codes M2 and M8



Electrical Composition Corresponding to Codes M6 and P2



Product data sheet

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Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2

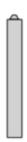


Legend

Single contact



Double contact



Light block



Possible location

