ZB5AP1

white projecting pushbutton head Ø22 spring return unmarked





Main

Range of product	Harmony XB5
Product or component	Head for non-illuminated push-button
type	
Device short name	ZB5
Product compatibility	Not compatible with legend holder
Bezel material	Dark grey plastic
Mounting diameter	0.87 in (22 mm)
Head type	Standard
Sale per indivisible	1
quantity	
Shape of signaling unit head	Round
Type of operator	Spring return
Operator profile	White projecting, unmarked
Operator additional information	Clear boot

Complementary

Device presentation	Basic element
	SR1 3 single rear mounting
	SF1 3 single front mounting
	C11 3 single front mounting C15 1 single front mounting
	C2 9 single and double front mounting C11 3 single front mounting
Electrical composition code	C1 9 single front mounting
	XALK 25 cut-outs
Station name	XALD 15 cut-outs
.	•
Mechanical durability	10000000 cycles
Net Weight	0.03 lb(US) (0.014 kg)
CAD overall depth	1.38 in (35 mm)
CAD overall height	1.18 in (30 mm)
CAD overall width	1.18 in (30 mm)

Environment

Protective treatment	TH	
Ambient air temperature for storage	-40158 °F (-4070 °C)	
Ambient air temperature for operation	-40158 °F (-4070 °C)	
Overvoltage category	Class II IEC 60536	
IP degree of protection	IP66 IEC 60529 IP67 IEC 60529 IP69 IEC 60529 IP69K ISO 20653	
NEMA degree of protection	NEMA 13 NEMA 4X	
Resistance to high pressure washer	1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m	
IK degree of protection	IK03 IEC 50102	

Standards	CSA C22.2 No 14 EN/IEC 60947-5-1	
	EN/IEC 60947-1	
	EN/IEC 60947-5-4	
	JIS C8201-5-1	
	UL 508	
	JIS C8201-1	
Product certifications	RINA	
	LROS (Lloyds register of shipping)	
	DNV	
	CSA	
	BV	
	GL	
	UL Listed	
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	22467 - PUSHBUTTONS,22MM(PLASTIC) NEW
Discount Schedule	CS2
GTIN	00785901387442
Nbr. of units in pkg.	1
Package weight(Lbs)	0.04 lb(US) (0.02 kg)
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE	
Package 1 Height	1.38 in (3.5 cm)	
Package 1 width	1.73 in (4.4 cm)	
Package 1 Length	2.09 in (5.3 cm)	

Offer Sustainability

Green Premium product	
Yes	
Pro-active compliance (Product out of EU RoHS legal scope)	
Yes	
€Yes	
☑ China RoHS Declaration	
Product Environmental Profile	
End Of Life Information	

Contractual warranty

Warranty	18 months

Product data sheet Dimensions Drawings

ZB5AP1

Dimensions

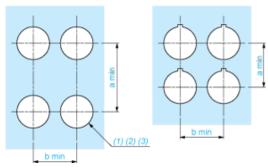




	a in mm	a in in.
ZB5AP••	36.5	1.44
ZB5AP•S	33	1.30
ZB5AP•83	32	1.26
ZB5AP•	35	1.38

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

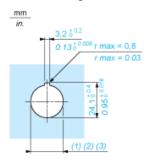
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. \emptyset 22.5 mm recommended (\emptyset 22.3 $_0$ $^{+0.4}$) / \emptyset 0.89 in. recommended (\emptyset 0.88 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
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- 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.



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

- 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:
 - o every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - 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.



- (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 \pm 0.05 / 0.09 in. \pm 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•.

Electrical Composition Corresponding to Code C1
Electrical Composition Corresponding to Code C2
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
Legend

Single	contac
_	



Double contact



Light block



Possible location

