Product data sheet Characteristics

ZB5AA333

green flush pushbutton head Ø22 spring return "START"

Product availability: Stock - Normally stocked in distribution facility

Price*: 18.60 USD



Main

		<u>'</u>
Range of product	Harmony XB5	
Product or component type	Head for non-illuminated push-button	 0 0
Device short name	ZB5	# 5
Bezel material	Plastic	: <u>:</u> .c. .g.
Mounting diameter	0.87 in (22 mm)	<u> </u>
Sale per indivisible quantity	1	
Shape of signaling unit head	Round	
Type of operator	Spring return	
Operator profile	Green flush, white START	
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Complementary

Complementary		Q.
CAD overall width	1.14 in (29 mm)	
CAD overall height	1.14 in (29 mm)	. <u>k</u>
CAD overall depth	1.1 in (28 mm)	
Product weight	0.04 lb(US) (0.018 kg)	<u> </u>
Mechanical durability	10000000 cycles	
Station name XALD 15 cut-outs XALK 25 cut-outs		о о о
Electrical composition code	C1 <= 9 contacts using single blocks in front mounting C2 <= 9 contacts using single and double blocks in front mounting C11 <= 3 contacts using single blocks in front mounting C15 1 contacts using single blocks in front mounting SF1 <= 3 contacts using single blocks in front mounting SR1 <= 3 contacts using single blocks in rear mounting	nentation is not intende

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 conforming to IEC 60536		
IP degree of protection	IP69 IP67 IP66 conforming to IEC 60529 IP69K		
NEMA degree of protection	NEMA 13 NEMA 4X		
Resistance to high pressure washer	1015.26 psi (7000000 Pa) at 131 °F (55 °C),distance: 0.1 m		
IK degree of protection	IK03 conforming to IEC 50102		
Standards	UL 508 JIS C 4520 EN/IEC 60947-1 EN/IEC 60947-5-4 CSA C22.2 No 14 EN/IEC 60947-5-1		
Product certifications	BV CSA RINA DNV LROS (Lloyds register of shipping) UL listed GL		
Shock resistance	30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC 60068-2-27		
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6		

Ordering and shipping details

22467 - PUSHBUTTONS,22MM(PLASTIC) NEW	
CS2	
00785901904540	
1	
4.0000000000001E-2	
Υ	
FR	
	CS2 00785901904540 1 4.00000000000001E-2 Y

Contractual warranty

Warranty period	18 months

Product data sheet Dimensions Drawings

ZB5AA333

Dimensions

Product data sheet Mounting and Clearance

ZB5AA333

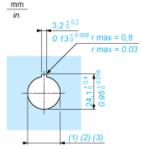
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

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

- (1) Diameter on finished panel or support
- 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. $_{0}^{+0.016}$) (3)

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

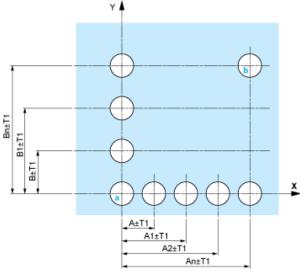
Detail of Lug Recess



- (1) Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. \varnothing 22.5 mm recommended (\varnothing 22.3 $_0$ ^{+0.4}) / \varnothing 0.89 in. recommended (\varnothing 0.88 in. $_0$ ^{+0.016})

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

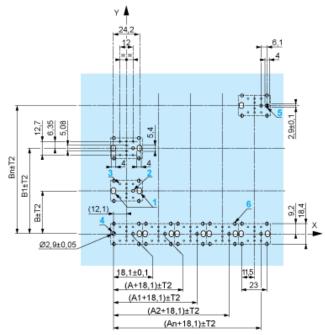
Panel Cut-outs (Viewed from Installer's Side)



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

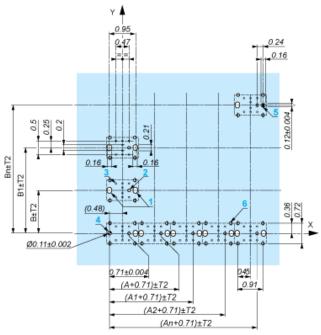
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



- A: 30 mm min.
- B: 40 mm min.

Dimensions in in.



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

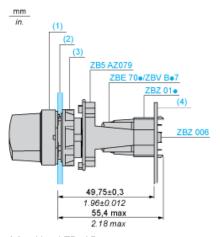
General Tolerances of the Panel and Printed Circuit Board

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).
 - 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.



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

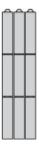
Mounting of Adapter (Socket) ZBZ01•

- 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 \pm 0.05 / 0.11 in. \pm 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•.

ZB5AA333

Electrical Composition Corresponding to Code C1



ZB5AA333

Electrical Composition Corresponding to Code C2

ZB5AA333

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



ZB5AA333

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Single contact



Double contact

Light block



Possible location

