Product datasheet Characteristics

ZB5AA73133

green flush/red projecting/green flush tripleheaded pushbutton Ø22 with marking





Commercial status

Discontinued on: 01 July 2020

End-of-service on: 01 July 2020

Main

Range of product	Harmony XB5	a
Product or component type	Head for triple-headed push-button	
Device short name	XB5	
Bezel material	Dark grey plastic	
Mounting diameter	22 mm	-
Head type	Standard	
Shape of signaling unit head	Rectangular	<u>-</u>
Type of operator	spring return	<u>}</u>
Operator profile	2 flush - 1 central projecting STOP push-buttons	
Operators description	Green "right arrow" - green "left arrow" - red "STOP"	

Complementary

	•
30 mm	
50 mm	
35 mm	
0.023 kg	
7000000 Pa at 55 °C, distance : 0.1 m	
White marking when green, red or black caps Black marking when white caps	:
Red projecting, STOP (white) Green flush, left arrow (white) Green flush, right arrow (white)	
1000000 cycles	 :
XALD 1 cut-out	 -
C1 for <9 contacts using single blocks in front mounting C2 for <9 contacts using single and double blocks in front mounting C11 for <3 contacts using single blocks in front mounting SF1 for <3 contacts using single blocks in front mounting SR1 for <3 contacts using single blocks in rear mounting	
	50 mm 35 mm 0.023 kg 7000000 Pa at 55 °C, distance : 0.1 m White marking when green, red or black caps Black marking when white caps Red projecting, STOP (white) Green flush, left arrow (white) Green flush, right arrow (white) 1000000 cycles XALD 1 cut-out C1 for <9 contacts using single blocks in front mounting C2 for <9 contacts using single and double blocks in front mounting C11 for <3 contacts using single blocks in front mounting SF1 for <3 contacts using single blocks in front mounting

Device presentation

Environment

Ambient air temperature for storage	-4070 °C
Ambient air temperature for operation	-2570 °C
Electrical shock protection class	Class II conforming to IEC 61140
IP degree of protection	IP67 conforming to IEC 60529 IP69 conforming to IEC 60529 IP69K
NEMA degree of protection	NEMA 13 NEMA 4X
IK degree of protection	IK05 conforming to IEC 50102
Standards	CSA C22.2 No 14 EN/IEC 60947-5-1 EN/IEC 60947-1 JIS C8201-5-1 UL 508 EN/IEC 60947-5-4 JIS C8201-1
Product certifications	UL listed RINA GL DNV LROS (Lloyds register of shipping) BV CSA
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

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	26 g
Package 1 Height	3.3 cm
Package 1 width	5.3 cm
Package 1 Length	5.5 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Weight	130 g
Package 2 Height	3.3 cm
Package 2 width	5.5 cm
Package 2 Length	26.5 cm
Unit Type of Package 3	S02
Number of Units in Package 3	50
Package 3 Weight	1.646 kg
Package 3 Height	15 cm
Package 3 width	30 cm
Package 3 Length	40 cm

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Toxic heavy metal free	Yes	

Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

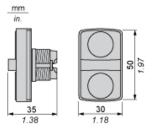
Warranty	18 months	

Product datasheet Dimensions Drawings

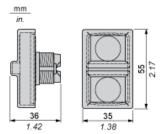
ZB5AA73133

Dimensions

Without Boot

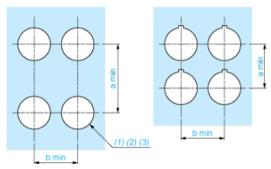


With Boot ZBA709



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

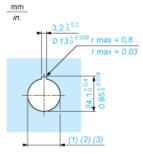
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. \varnothing 22.5 mm recommended (\varnothing 22.3 $_0$ ^{+0.4}) / \varnothing 0.89 in. recommended (\varnothing 0.88 in. $_0$ ^{+0.016})
- (2) (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

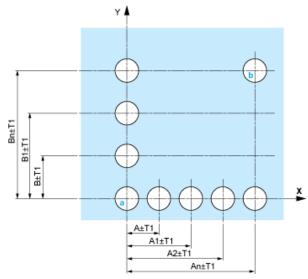
Detail of Lug Recess



- 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})
- (2) (3)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

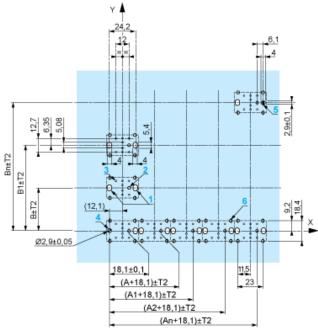
Panel Cut-outs (Viewed from Installer's Side)



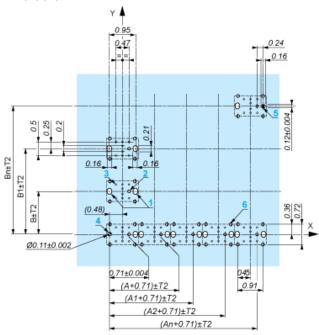
A: 30 mm min. / 1.18 in. min. B: 40 mm min. / 1.57 in. min.

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.

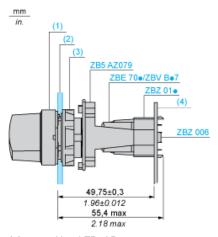
General Tolerances of the Panel and Printed Circuit Board

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) (2) Panel
- 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•
- 38 × 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•.

ZB5AA73133

Electrical Composition Corresponding to Code C1



ZB5AA73133

Electrical Composition Corresponding to Code C2



ZB5AA73133

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



ZB5AA73133

Legend

Single contact



Double contact



Light block



Possible location



ZB5AA73133 is replaced by the following product range:









Harmony XB5

 \varnothing 22 plastic signaling units. Round and square plastic bezel buttons and indicators.

The modular range of Ø 22 mm plastic control and signaling units combines simplicity of installation, efficiency, flexibility, modern design, and robustness, high level of customization to meet most industrial applications.

Reason for Substitution: End of life | Substitution date: 22 September 2020