

Harmony XB5, Push button head, plastic, flush, red, Ø22, spring return, marked STOP

ZB5AA434

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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	22 mm
Head type	Standard
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	spring return
Operator profile	Red flush, STOP (white)

Complementary

CAD overall width	29 mm
CAD overall height	29 mm
CAD overall depth	28 mm
Net weight	0.018 kg
Mechanical durability	10000000 cycles
Station name	XALD 15 cut-outs XALK 25 cut-outs
Electrical composition code	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 C15 for <1 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
Device presentation	Basic element

Environment

Protective treatment	тн
Ambient air temperature for storage	-4070 °C
Ambient air temperature for operation	-4070 °C
Overvoltage category	Class II conforming to IEC 60536
Overvoltage category	Class II conforming to IEC 60536

Pedegree of protection		
NEMA AX Resistance to high pressure washer 7000000 Pa at 55 °C. distance: 0.1 m washer IK degree of protection IK 03 conforming to IEC 50102 Standards JIS 08201-5-1 ENIEC 60947-1 ENIEC 60047-1	IP degree of protection	IP67 IP69
Washer IK degree of protection IK 03 conforming to IEC 50102 Standards St	NEMA degree of protection	
Standards JIS C8201-5-1 ENIEC 89847-5-1 ENIEC 89847-5-1 ENIEC 89847-5-1 ENIEC 89847-5-1 ENIEC 89847-6-1 ENIEC 89847-6 ENIEC 89847- EN		7000000 Pa at 55 °C, distance : 0.1 m
EN/IEC 80947-51 EN/IEC 80947-51 EN/IEC 80947-51 EN/IEC 80947-51 EN/IEC 80947-51 EN/IEC 80947-54 CSA C22.2 No 14 UL 508 UL Issed LROS (Lloyds register of shipping) DNV CSA GL BY Shock resistance	 IK degree of protection	IK03 conforming to IEC 50102
LROS (Lloyds register of shipping) DNV CSA GL BV Shock resistance 30 (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 Vibration resistance 5 gn (f= 2500 Hz) conforming to IEC 60068-2-6 Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 17 g Package 1 Height 3.4 cm Package 1 Length 5.4 cm Unit Type of Package 2 BB1 Number of Units in Package 2 BB1 Number of Units in Package 2 Fackage 2 Weight 85 g Package 2 Height 3.4 cm Package 2 Height 3.4 cm Package 2 Length 4.5 cm Package 2 Height 3.6 cm Unit Type of Package 3 S03 Number of Units in Package 3 S04 S05 S07		EN/IEC 60947-5-1 EN/IEC 60947-1 EN/IEC 60947-5-4 CSA C22.2 No 14 UL 508
50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60088-2-27 Vibration resistance 5 gn (f= 2500 Hz) conforming to IEC 60088-2-6 Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 Package 1 Weight Package 1 Height Package 1 Height Package 1 Length Package 1 Length Package 2 Length Package 2 Package 2 Weight Package 2 Weight Package 2 Weight Package 2 Weight Package 3 Weight Package 3 Weight Package 3 Length Package 3 Weight Package 3 Length Package 4 Length Package 4 Length Package 5 Length Package 5 Length Package 6 Length Package 7 Length Package 7 Length Package 9 Length Pac	Product certifications	LROS (Lloyds register of shipping) DNV CSA GL
Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 17 g Package 1 Height 3.4 cm Package 1 Length 5.4 cm Unit Type of Package 2 BB1 Number of Units in Package 2 BB1 Number of Units in Package 2 5 Package 2 Weight 85 g Package 2 Height 3.4 cm Package 2 Height 3.5 cm Package 2 Height 4.5 cm Unit Type of Package 3 S03 Number of Units in Package 3 S03 Package 3 Weight 5.66 kg Package 3 Weight 5.66 kg Package 3 Weight 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration	Shock resistance	
Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 17 g Package 1 Height 3.4 cm Package 1 width 4.5 cm Package 1 Length 5.4 cm Unit Type of Package 2 BB1 Number of Units in Package 2 5 Package 2 Weight 85 g Package 2 Height 3.4 cm Package 2 width 4.5 cm Package 2 width 4.5 cm Package 2 Length 26.5 cm Unit Type of Package 3 S03 Number of Units in Package 3 300 Package 3 Weight 5.66 kg Package 3 Weight 30 cm Package 3 Length 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration	Vibration resistance	5 gn (f= 2500 Hz) conforming to IEC 60068-2-6
Number of Units in Package 1 1 Package 1 Weight 17 g Package 1 Height 3.4 cm Package 1 width 4.5 cm Package 1 Length 5.4 cm Unit Type of Package 2 BB1 Number of Units in Package 2 5 Package 2 Weight 85 g Package 2 Height 3.4 cm Package 2 width 4.5 cm Package 2 Length 26.5 cm Unit Type of Package 3 303 Number of Units in Package 3 300 Package 3 Weight 5.66 kg Package 3 Height 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Declaration REACh Declaration	Packing Units	
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Package 1 width 4.5 cm Package 1 Length 5.4 cm Unit Type of Package 2 BB1 Number of Units in Package 2 5 Package 2 Weight 85 g Package 2 Height 3.4 cm Package 2 width 4.5 cm Package 2 Length 26.5 cm Unit Type of Package 3 S03 Number of Units in Package 3 S03 Number of Units in Package 3 300 Package 3 Weight 5.66 kg Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration	Package 1 Weight	17 g
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Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight 85 g Package 2 Height 3.4 cm Package 2 width 4.5 cm Package 2 Length 26.5 cm Unit Type of Package 3 Number of Units in Package 3 Number of Units in Package 3 Package 3 Weight 5.66 kg Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration	Package 1 width	4.5 cm
Number of Units in Package 2 Package 2 Weight 85 g Package 2 Height 3.4 cm Package 2 width 4.5 cm Package 2 Length 26.5 cm Unit Type of Package 3 Number of Units in Package 3 Package 3 Weight 5.66 kg Package 3 Weight 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration	Package 1 Length	5.4 cm
Package 2 Weight 85 g Package 2 Height 3.4 cm Package 2 width 4.5 cm Package 2 Length 26.5 cm Unit Type of Package 3 S03 Number of Units in Package 3 300 Package 3 Weight 5.66 kg Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration	Unit Type of Package 2	BB1
Package 2 Height 3.4 cm Package 2 width 4.5 cm Package 2 Length 26.5 cm Unit Type of Package 3 S03 Number of Units in Package 3 300 Package 3 Weight 5.66 kg Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration	Number of Units in Package 2	5
Package 2 width 4.5 cm Package 2 Length 26.5 cm Unit Type of Package 3 S03 Number of Units in Package 3 300 Package 3 Weight 5.66 kg Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration	Package 2 Weight	85 g
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Unit Type of Package 3 S03 Number of Units in Package 3 300 Package 3 Weight 5.66 kg Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration	Package 2 width	4.5 cm
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Package 3 Weight 5.66 kg Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration	Unit Type of Package 3	S03
Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration	Number of Units in Package 3	300
Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration	Package 3 Weight	5.66 kg
Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration		30 cm
Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration		30 cm
Sustainable offer status Green Premium product REACH Regulation REACH Declaration		40 cm
Sustainable offer status Green Premium product REACH Regulation REACH Declaration	Offer Sustainabilitv	
		Green Premium product
REACh free of SVHC Yes	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	EU RoHS Directive	

RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
California proposition 65	WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which known to the State of California to cause birth defects or other reproductive harm. For more informat go to www.P65Warnings.ca.gov	
Contractual warranty		
Warranty	18 months	

ZB5AA434

Dimensions Drawings

Dimensions

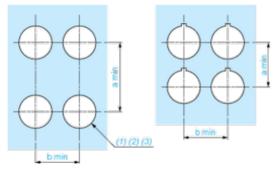




Mounting and Clearance

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

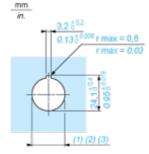
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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. $_{0}^{+0.016}$)

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.

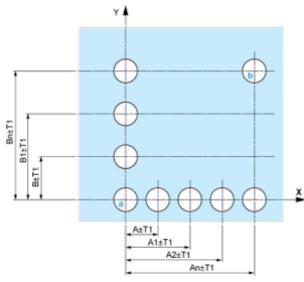
Life Is On Schneider

(3) Ø22.5 mm recommended (Ø22.3 $_0^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_0^{+0.016}$)

Mounting and Clearance

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

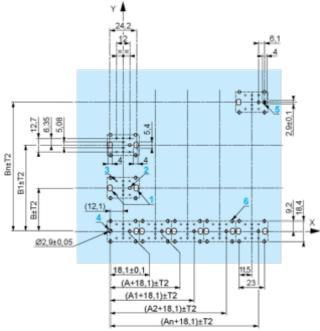


A: 30 mm min. / 1.18 in. min.

B: 40 mm min. / 1.57 in. min.

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

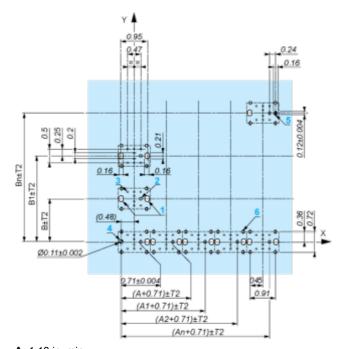
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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

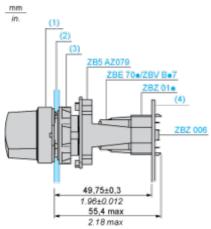
General Tolerances of the Panel and Printed Circuit Board

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 ± 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•.

ZB5AA434

Technical Description

Electrical Composition Corresponding to Code C1



ZB5AA434

Technical Description

Electrical Composition Corresponding to Code C2



ZB5AA434

Technical Description

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



ZB5AA434

Technical Description

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



ZB5AA434

Technical Description

1 ~~		
Lec	iena	

Single contact



Double contact



Light block



Possible location

