

Product data sheet

Specifications



Head for double headed push button, Harmony XB5, 2 rectangular flush, without cap, 22mm, spring return, unmarked

ZB5AA79

Main

Range of product	Harmony XB5
Product or component type	Head for double-headed 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	Rectangular
Type of operator	spring return
Operator profile	2 flush push-buttons
Operators description	Black pushes without cap

Complementary

CAD overall width	30 mm
CAD overall height	50 mm
CAD overall depth	30 mm
Net weight	0.023 kg
Colour of marking	Black marking when white caps White marking when green, red or black caps
Operator profile	without cap
Mechanical durability	1000000 cycles
Station name	XALD 1 cut-out
Electrical composition code	C3 for <6 contacts using single blocks in front mounting C4 for <6 contacts using single and double blocks in front mounting C14 for <2 contacts using single blocks in front mounting SF2 for <2 contacts using single blocks in front mounting SR2 for <2 contacts using single blocks in rear mounting
Device presentation	Basic element

Environment

Protective treatment	TH
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-25...70 °C
Electrical shock protection class	Class II conforming to IEC 60536

IP degree of protection	IP66 conforming to IEC 60529 IP69K conforming to IEC 60529
NEMA degree of protection	NEMA 13 NEMA 4X
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m
IK degree of protection	IK03 conforming to IEC 50102
Standards	IEC 60947-5-1 CSA C22.2 No 14 IEC 60947-5-4 JIS C8201-5-1 IEC 60947-1 UL 508 JIS C8201-1
Product certifications	CSA DNV BV LROS (Lloyds register of shipping) UL listed
Vibration resistance	5 gn (f= 2...500 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	4.8 cm
Package 1 Width	4.8 cm
Package 1 Length	3.0 cm
Package 1 Weight	24.0 g
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Height	5.5 cm
Package 2 Width	26.5 cm
Package 2 Length	3.3 cm
Package 2 Weight	125.0 g
Unit Type of Package 3	S02
Number of Units in Package 3	50
Package 3 Height	15.0 cm
Package 3 Width	30.0 cm
Package 3 Length	40.0 cm
Package 3 Weight	1.553 kg

Contractual warranty

Warranty	18 months
-----------------	-----------

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint

Total lifecycle Carbon footprint 1

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

California proposition 65 **WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**

Use Again

Repack and remanufacture

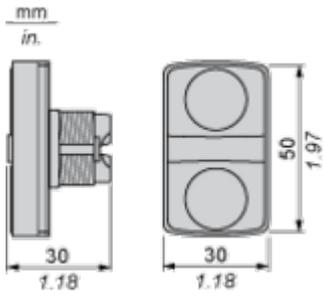
End of life manual availability [End of Life Information](#)

Take-back No

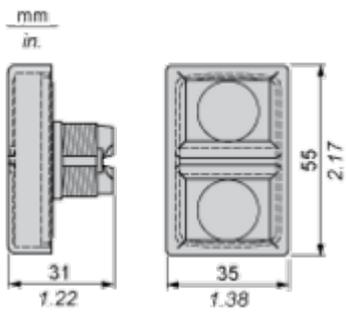
Dimensions Drawings

Dimensions

Without Boot



With Boot ZBA708



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 ($\text{Ø}22.3 \text{ }_0^{+0.4}$) / Ø0.89 in. recommended ($\text{Ø}0.88 \text{ in. }_0^{+0.016}$)

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.
- (3) Ø22.5 mm recommended ($\text{Ø}22.3 \text{ }_0^{+0.4}$) / Ø0.89 in. recommended ($\text{Ø}0.88 \text{ in. }_0^{+0.016}$)



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

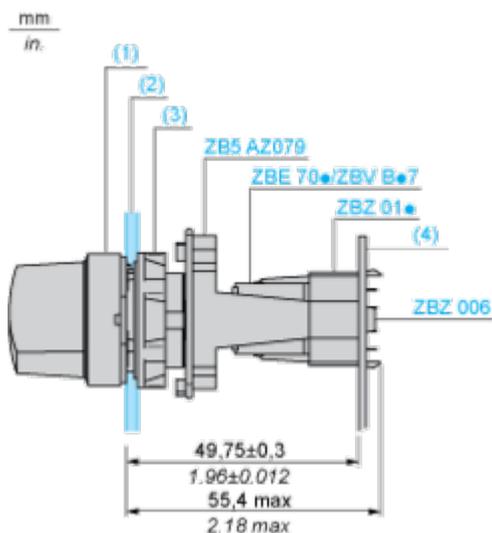
General Tolerances of the Panel and Printed Circuit Board

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:
 - 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 \varnothing 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 for centring adapter ZBZ01•
- 3 8 \times \varnothing 1.2 mm / 0.05 in. holes
- 4 1 hole \varnothing 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 \varnothing 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

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

Technical Description

Electrical Composition Corresponding to Code C3



Electrical Composition Corresponding to Code C4



Electrical Composition Corresponding to Codes C14, SF2 and SR2



Legend

Single contact



Double contact



Light block

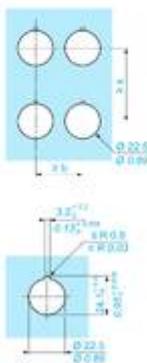
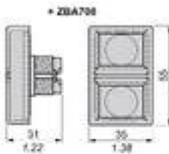
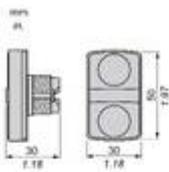


Possible location



Technical Illustration

Dimensions



	a (mm)	a (in.)	b (mm)	b (in.)
ZB5AA79	40	1.57	30	1.18
ZB5AA80	45	1.77	32	1.26
ZB5AA81	40	1.57	30	1.18
ZB5AA82	50	1.97	30	1.18
ZB5AA83	40	1.57	30	1.18
ZB5AA84	40	1.57	30	1.18
ZB5AA85	40	1.57	30	1.18
ZB5AA86	40	1.57	30	1.18
ZB5AA87	40	1.57	30	1.18
ZB5AA88	40	1.57	30	1.18
ZB5AA89	40	1.57	30	1.18
ZB5AA90	40	1.57	30	1.18
ZB5AA91	40	1.57	30	1.18
ZB5AA92	40	1.57	30	1.18
ZB5AA93	40	1.57	30	1.18
ZB5AA94	40	1.57	30	1.18
ZB5AA95	40	1.57	30	1.18
ZB5AA96	40	1.57	30	1.18
ZB5AA97	40	1.57	30	1.18
ZB5AA98	40	1.57	30	1.18
ZB5AA99	40	1.57	30	1.18
ZB5AA100	40	1.57	30	1.18
ZB5AA101	40	1.57	30	1.18
ZB5AA102	40	1.57	30	1.18
ZB5AA103	40	1.57	30	1.18
ZB5AA104	40	1.57	30	1.18
ZB5AA105	40	1.57	30	1.18
ZB5AA106	40	1.57	30	1.18
ZB5AA107	40	1.57	30	1.18
ZB5AA108	40	1.57	30	1.18
ZB5AA109	40	1.57	30	1.18
ZB5AA110	40	1.57	30	1.18
ZB5AA111	40	1.57	30	1.18
ZB5AA112	40	1.57	30	1.18
ZB5AA113	40	1.57	30	1.18
ZB5AA114	40	1.57	30	1.18
ZB5AA115	40	1.57	30	1.18
ZB5AA116	40	1.57	30	1.18
ZB5AA117	40	1.57	30	1.18
ZB5AA118	40	1.57	30	1.18
ZB5AA119	40	1.57	30	1.18
ZB5AA120	40	1.57	30	1.18
ZB5AA121	40	1.57	30	1.18
ZB5AA122	40	1.57	30	1.18
ZB5AA123	40	1.57	30	1.18
ZB5AA124	40	1.57	30	1.18
ZB5AA125	40	1.57	30	1.18
ZB5AA126	40	1.57	30	1.18
ZB5AA127	40	1.57	30	1.18
ZB5AA128	40	1.57	30	1.18
ZB5AA129	40	1.57	30	1.18
ZB5AA130	40	1.57	30	1.18
ZB5AA131	40	1.57	30	1.18
ZB5AA132	40	1.57	30	1.18
ZB5AA133	40	1.57	30	1.18
ZB5AA134	40	1.57	30	1.18
ZB5AA135	40	1.57	30	1.18
ZB5AA136	40	1.57	30	1.18
ZB5AA137	40	1.57	30	1.18
ZB5AA138	40	1.57	30	1.18
ZB5AA139	40	1.57	30	1.18
ZB5AA140	40	1.57	30	1.18
ZB5AA141	40	1.57	30	1.18
ZB5AA142	40	1.57	30	1.18
ZB5AA143	40	1.57	30	1.18
ZB5AA144	40	1.57	30	1.18
ZB5AA145	40	1.57	30	1.18
ZB5AA146	40	1.57	30	1.18
ZB5AA147	40	1.57	30	1.18
ZB5AA148	40	1.57	30	1.18
ZB5AA149	40	1.57	30	1.18
ZB5AA150	40	1.57	30	1.18
ZB5AA151	40	1.57	30	1.18
ZB5AA152	40	1.57	30	1.18
ZB5AA153	40	1.57	30	1.18
ZB5AA154	40	1.57	30	1.18
ZB5AA155	40	1.57	30	1.18
ZB5AA156	40	1.57	30	1.18
ZB5AA157	40	1.57	30	1.18
ZB5AA158	40	1.57	30	1.18
ZB5AA159	40	1.57	30	1.18
ZB5AA160	40	1.57	30	1.18
ZB5AA161	40	1.57	30	1.18
ZB5AA162	40	1.57	30	1.18
ZB5AA163	40	1.57	30	1.18
ZB5AA164	40	1.57	30	1.18
ZB5AA165	40	1.57	30	1.18
ZB5AA166	40	1.57	30	1.18
ZB5AA167	40	1.57	30	1.18
ZB5AA168	40	1.57	30	1.18
ZB5AA169	40	1.57	30	1.18
ZB5AA170	40	1.57	30	1.18
ZB5AA171	40	1.57	30	1.18
ZB5AA172	40	1.57	30	1.18
ZB5AA173	40	1.57	30	1.18
ZB5AA174	40	1.57	30	1.18
ZB5AA175	40	1.57	30	1.18
ZB5AA176	40	1.57	30	1.18
ZB5AA177	40	1.57	30	1.18
ZB5AA178	40	1.57	30	1.18
ZB5AA179	40	1.57	30	1.18
ZB5AA180	40	1.57	30	1.18
ZB5AA181	40	1.57	30	1.18
ZB5AA182	40	1.57	30	1.18
ZB5AA183	40	1.57	30	1.18
ZB5AA184	40	1.57	30	1.18
ZB5AA185	40	1.57	30	1.18
ZB5AA186	40	1.57	30	1.18
ZB5AA187	40	1.57	30	1.18
ZB5AA188	40	1.57	30	1.18
ZB5AA189	40	1.57	30	1.18
ZB5AA190	40	1.57	30	1.18
ZB5AA191	40	1.57	30	1.18
ZB5AA192	40	1.57	30	1.18
ZB5AA193	40	1.57	30	1.18
ZB5AA194	40	1.57	30	1.18
ZB5AA195	40	1.57	30	1.18
ZB5AA196	40	1.57	30	1.18
ZB5AA197	40	1.57	30	1.18
ZB5AA198	40	1.57	30	1.18
ZB5AA199	40	1.57	30	1.18
ZB5AA200	40	1.57	30	1.18