Product data sheet Characteristics

ZB5AA18

white flush pushbutton head Ø22 spring return unmarked



Main Commercial Status Commercialised Range of product Harmony XB5 Product or component Head for illuminated pushbutton type Device short name ZB5 Product compatibility Integral LED Plastic Bezel material Mounting diameter 22 mm Sale per indivisible quantity Shape of signaling unit Round head Type of operator Spring return Operator profile White flush unmarked Operator additional in-For insertion of legend

Complementary

CAD overall width	29 mm	
CAD overall height	29 mm	
CAD overall depth	30 mm	
Product weight	0.018 kg	
Resistance to high pressure washer	7000000 Pa at 55 °C, distance: 0.1 m	
Mechanical durability	5000000 cycles	
Maximum of contact NO or NC	6	
Station name	XALK 25 cut-outs XALD 15 cut-outs	

formation

Environment

LIMIOIIIICIL		
Protective treatment	TC	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-2570 °C	
Class of protection against electric shock	Class II conforming to IEC 60536	
IP degree of protection	IP66 conforming to IEC 60529	
NEMA degree of protection	NEMA 4X NEMA 13	
IK degree of protection	IK05 conforming to EN 50102	
Standards	CSA C22-2 No 14 EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 JIS C 4520 UL 508 GB 14048.5	
Product certifications	BV CSA DNV GL LROS (Lloyds register of shipping) RINA UL listed	

Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms half sine wave acceleration conforming to IEC 60068-2-27 30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27



Dimensions of Heads for Spring Return Pushbuttons

Heads for Spring Return Pushbuttons

ZB5 AA•, ZB5 AA•••, ZB5 AA•8







ZB5 AL•, ZB5 AL•••

mm





ZB5 AA•4, ZB5 AA•6

in.





ZB5 AP••, ZB5 AP•S, ZB5 AP•83, ZB5 AP•

mm





	a in mm	a in in.
ZB5 AP••	36.5	1.44
ZB5 AP•S	33	1.30
ZB5 AP•83	32	1.26
ZB5 AP•	35	1.38

ZB5 CA•, ZB5 CA0

_mm





ZB5 CL•

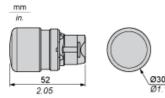
mm



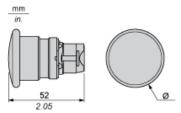


Mushroom Heads for Spring Return Pushbuttons

ZB5 AC•4

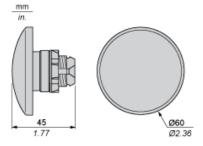


ZB5 AC•, ZB5 AR•



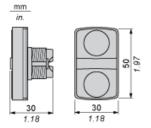
	Ø in mm	Ø in in.
ZB5 AC•	40	1.57
ZB5 AR•	60	2.36

ZB5 AR•16

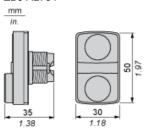


Heads for Double-Headed, Spring Return Pushbuttons

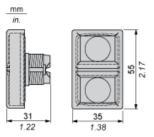
ZB5 AA712•, ZB5 AA734•, ZB5 AA79



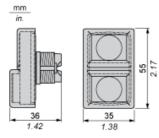
ZB5 AL734•



ZB5 AA712•, ZB5 AA734•, ZB5 AA79 + boot ZBA 708

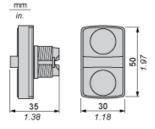


ZB5 AL734• + boot ZBA 710

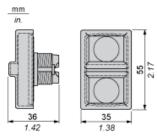


Heads for Triple-Headed, Spring Return Pushbuttons

ZB5 AA7313•, ZB5 AA711••, ZB5 AA72124, ZB5 AA791

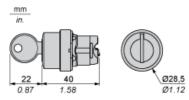


ZB5 AA7313•, ZB5 AA711••, ZB5 AA72124, ZB5 AA791 + boot ZBA 709



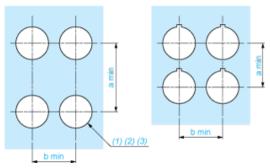
Heads for Lockable, Push-Turn Pushbuttons

ZB5 AFD



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

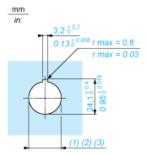
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5 AZ902 is recommended. \varnothing 22.5 mm recommended (\varnothing 22.3 $_0$ $^{+0.4}$) / \varnothing 0.89 in. recommended (\varnothing 0.88 in. $_0$ $^{+0.016}$)

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

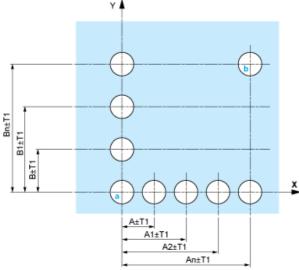
Detail of Lug Recess



- (1) Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5 AZ902 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

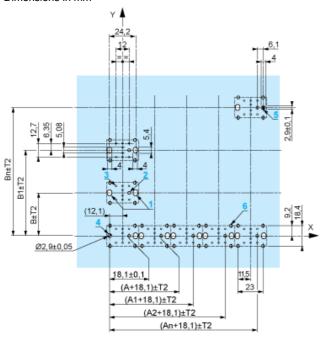
Panel Cut-outs (Viewed from Installer's Side)



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

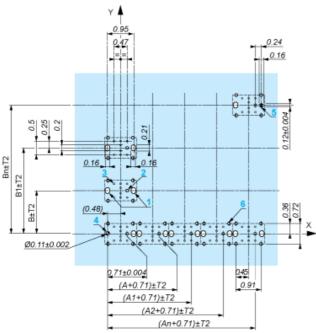
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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

Dimensions in in.



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

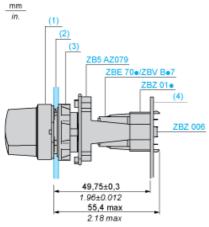
General Tolerances of the Panel and Printed Circuit Board

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 ZB4 BZ009: ± 2°30' (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ 006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB4 BZ079 fixing collar/pillar and its fixing screws:
 - $\circ~$ every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - o with each selector switch head (ZB5 AD•, ZB5 AJ•, ZB5 AG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



- (1) Head ZB5 AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 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 ZBZ 01•

Dimensions An + 18.1 relate to the Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ 01•.