

Product data sheet Characteristics

ZB5AW33 green flush illuminated pushbutton head Ø22 spring return for BA9s bulb



	Main				
	Range of product Harmony XB5				
	Product or component type	Head for illuminated push-button			
	Device short name	ZB5			
	Product compatibility	BA 9s			
	Bezel material	Dark grey plastic			
	Mounting diameter	22 mm			
	Sale per indivisible quantity	1			
	Head type	Standard			
	Shape of signaling unit head	Round			
	Type of operator	Spring return			
	Operator profile	Green flush, unmarked			
	Operator additional information	With plain lens			
Complementary CAD overall width	29 mm				
CAD overall height	29 mm				
CAD overall depth	32 mm				
Net weight	0.018 kg				
Resistance to high pressure washer	7000000 Pa at 55 °C, dist	ance : 0.1 m			
Aechanical durability	10000000 cycles				
Aain group	Illum push-button				
nain group	Flush push BA9s				
÷ .	Flush push BA9s				
Group of product	Flush push BA9s XALD 15 cut-outs XALK 25 cut-outs				
Group of product Station name	XALD 15 cut-outs				
Group of product Station name Cap/operator or lens colour	XALD 15 cut-outs XALK 25 cut-outs				
Group of product Station name Cap/operator or lens colour Marking Electrical composition code	XALD 15 cut-outs XALK 25 cut-outs Green Unmarked M7 for <6 contacts using s M8 for <6 contacts using s M9 for <2 contacts using s transformer	single blocks in front mounting with BA 9s single and double blocks in front mounting with BA 9s single blocks in front mounting with BA 9s and g single blocks in front mounting with BA 9s			

Environment

Protective treatment	TC	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-4055 °C	
Overvoltage category	Class II conforming to IEC 60536	
IP degree of protection	IP66 conforming to IEC 60529 IP67 IP69 IP69K	

NEMA degree of protection	NEMA 13 NEMA 4X IK05 conforming to IEC 62262		
IK degree of protection			
Standards	IEC 60947-5-4		
	IEC 60947-1		
	CSA C22.2 No 14		
	IEC 60947-5-1		
	GB 14048.5		
	JIS C8201-5-1		
	UL 508		
	JIS C8201-1		
Product certifications	GL[RETURN]DNV[RETURN]LROS (Lloyds register of shipping)		
	[RETURN]CSA[RETURN]BV[RETURN]UL listed		
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

1
4.5 cm
3.4 cm
5.4 cm
18.0 g
S01
50
15.0 cm
15.0 cm
40.0 cm
1.062 kg

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)		
Mercury free	Yes		
China RoHS Regulation	China RoHS Declaration		
RoHS exemption information	₽ Yes		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End Of Life Information		

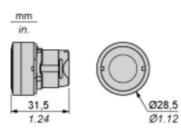
Contractual warranty

Warranty

18 months

Product data sheet Dimensions Drawings ZB5AW33

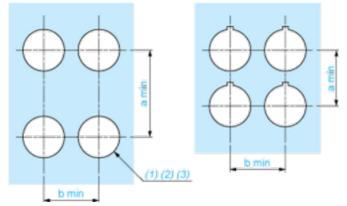
Dimensions



ZB5AW33

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.

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

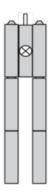


Mounting of Adapter (Socket) ZBZ01•

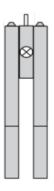
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 for centring adapter ZBZ01•
- 38 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning 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 ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

Electrical Composition Corresponding to Codes M1 and M7



Electrical Composition Corresponding to Codes M2 and M8



Electrical Composition Corresponding to Code M9



Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



Legend



Single contact

Double contact

Light block

Possible location