Product data sheet Characteristics

ZB5AD2

Harmony, 22mm Push Button, selector switch operating head, 2 position, maintained, black, unmarked

Product availability: Stock - Normally stocked in distribution facility



Main	
Range of product	Harmony XALF Harmony XB5
Product or component type	Head for selector switch
Device short name	ZB5
Bezel material	Dark grey plastic
Mounting diameter	0.87 in (22 mm)
Head type	Standard
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Stay put
Operator profile	Black standard handle
Operator position infor- mation	2 positions 90°

Complementary

Complementaly					
CAD overall width	1.14 in (29 mm)				
CAD overall height	1.14 in (29 mm)				
CAD overall depth	1.81 in (46 mm)				
Product weight	0.04 lb(US) (0.017 kg)				
Mechanical durability	1000000 cycles				
Station name	XALD 15 cut-outs XALK 25 cut-outs				
Electrical composition code	C15 1 contacts using single blocks in front mounting C11 3 contacts using single blocks in front mounting SF1 3 contacts using single blocks in front mounting C7 4 contacts using single blocks in front mounting C8 4 contacts using single and double blocks in front mounting SR1 3 contacts using single blocks in rear mounting C4 6 contacts using single and double blocks in front mounting C5 for 5 contacts using single blocks in front mounting C6 for 5 contacts using single and double blocks in front mounting C6 for 5 contacts using single blocks in front mounting C3 6 contacts using single blocks in front mounting				

Environment

Protective treatment	TH				
Ambient air temperature for storage	-40158 °F (-4070 °C)				
Ambient air temperature for operation	-40158 °F (-4070 °C)				
Overvoltage category	Class II conforming to IEC 60536				
IP degree of protection	IP69 conforming to IEC 60529 IP67 conforming to IEC 60529 IP69K				
NEMA degree of protection	NEMA 13 NEMA 4X	-			
Resistance to high pressure washer	1015.26 psi (7000000 Pa) at 131 °F (55 °C),distance: 0.1 m	-			
IK degree of protection	IK06 conforming to IEC 50102				
		-			



Standards	EN/IEC 60947-1				
	JIS C 4520				
	UL 508				
	CSA C22.2 No 14				
	EN/IEC 60947-5-4				
	EN/IEC 60947-5-1				
Product certifications	BV				
	RINA				
	CSA				
	GL				
	DNV				
	LROS (Lloyds register of shipping)				
	UL listed				
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6				
Shock resistance	30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27				
	50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC 60068-2-27				

Ordering and shipping details

22467 - PUSHBUTTONS,22MM(PLASTIC) NEW		
CS2		
00785901354833		
1		
4.0000000000001E-2		
Y		
FR		

Offer Sustainability

More information	For more information go to www.p65warnings.ca.gov
Substance 2	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
Substance 1	Nickel compounds, which is known to the State of California to cause cancer, and
California proposition 65	WARNING: This product can expose you to chemicals including:

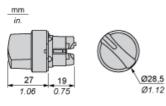
Contractual warranty

Warranty period

18 months

Product data sheet Dimensions Drawings ZB5AD2

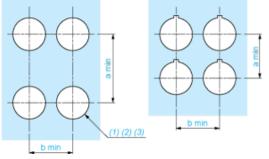
Dimensions





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



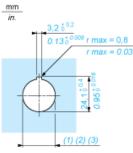
Diameter on finished panel or support (1)

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)

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 ZB5AZ902 is recommended. (2)

(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)





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

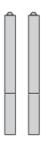
Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 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.

Electrical Composition Corresponding to Code C3

Electrical Composition Corresponding to Code C4



Electrical Composition Corresponding to Code C5



Electrical Composition Corresponding to Code C6



Electrical Composition Corresponding to Code C7



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



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



Legend

Single contact



Double contact



Light block



Possible location

Position 315°



·					
Push	Position	Тор			
Bottom		\bigtriangleup	\bigtriangleup		
Location		Left	Centre	Right	
State		0	0	0	
Contacts	N/O		open	open	open
N/C		closed	closed	closed	

Position 45°



Push	Position	Тор			
Bottom					
Location		Centre	Right		
State		1	1	1	
Contacts	N/O	N/O		closed	closed
N/C		open	open	open	

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