## Product data sheet Characteristics

### ZB5AD3

### black selector switch head Ø22 3-position stay put

Product availability: Stock - Normally stocked in distribution facility

Price\* : 24.00 USD



#### Main

Range of product	Harmony XB5	
Product or component type	Head for selector switch	
Device short name	ZB5	
Bezel material	Plastic	Į.
Mounting diameter	0.87 in (22 mm)	
Sale per indivisible quantity	1	
Shape of signaling unit head	Round	###
Type of operator	Stay put	
Operator profile	Black standard handle	
Operator position information	3 positions +/- 45°	

### Complementary

1.14 in (29 mm)	<u>.</u>
1.14 in (29 mm)	
1.81 in (46 mm)	
0.04 lb(US) (0.017 kg)	
1000000 cycles	
XALD 15 cut-outs XALK 25 cut-outs	
C11 <= 3 contacts using single blocks in front mounting SF1 <= 3 contacts using single blocks in front mounting SR1 <= 3 contacts using single blocks in rear mounting C3 <= 6 contacts using single blocks in front mounting C4 <= 6 contacts using single and double blocks in front mounting C7 <= 4 contacts using single blocks in front mounting C8 <= 4 contacts using single and double blocks in front mounting C5 <= 5 contacts using single blocks in front mounting C6 <= 5 contacts using single and double blocks in front mounting	nis documentation is not intended
	1.14 in (29 mm)  1.81 in (46 mm)  0.04 lb(US) (0.017 kg)  1000000 cycles  XALD 15 cut-outs  XALK 25 cut-outs  C11 <= 3 contacts using single blocks in front mounting  SF1 <= 3 contacts using single blocks in front mounting  SR1 <= 3 contacts using single blocks in rear mounting  C3 <= 6 contacts using single blocks in front mounting  C4 <= 6 contacts using single and double blocks in front mounting  C7 <= 4 contacts using single blocks in front mounting  C8 <= 4 contacts using single and double blocks in front mounting  C8 <= 5 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 60947-5-1 UL 508 EN/IEC 60947-5-4 CSA C22.2 No 14 JIS C 4520 EN/IEC 60947-1
Product certifications	UL listed GL BV DNV RINA CSA LROS (Lloyds register of shipping)
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

Category	22467 - PUSHBUTTONS,22MM(PLASTIC) NEW			
Discount Schedule	CS2			
GTIN	00785901354840			
Nbr. of units in pkg.	1			
Package weight(Lbs)	4.00000000000001E-2			
Returnability	Υ			
Country of origin	FR			

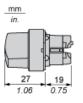
#### Contractual warranty

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Warranty period	18 months

# Product data sheet Dimensions Drawings

## ZB5AD3

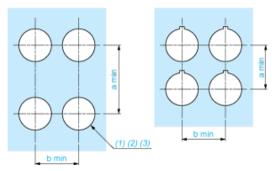
### **Dimensions**





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

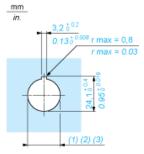
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- Diameter on finished panel or support (1)
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.  $\varnothing$ 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

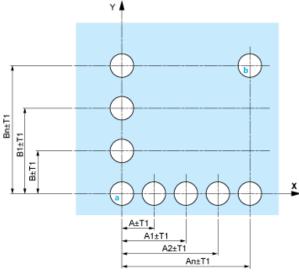
#### **Detail of Lug Recess**



- Diameter on finished panel or support
- 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.  $_0$   $^{+0.016}$ )

### Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

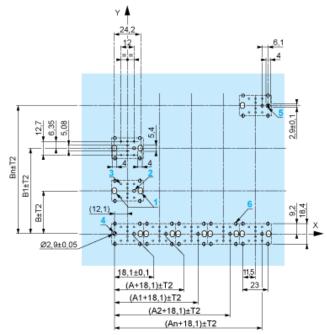
### Panel Cut-outs (Viewed from Installer's Side)



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

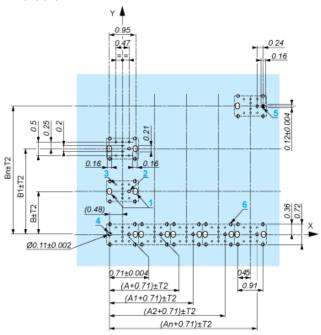
### Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

#### Dimensions in mm



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

#### Dimensions in in.



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

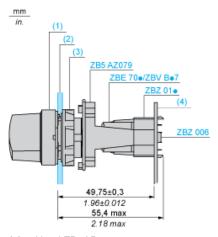
#### General Tolerances of the Panel and Printed Circuit Board

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.



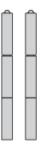
- (1) Head ZB5AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

#### 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  $\pm$  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 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•.

## ZB5AD3



## ZB5AD3



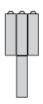
## ZB5AD3



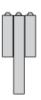
## ZB5AD3



## ZB5AD3



## ZB5AD3



## ZB5AD3

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



### ZB5AD3

### Legend

Single contact



Double contact



Light block



Possible location



## Product data sheet

## ZB5AD3

### **Technical Description**

### Sequence of Contacts Fitted to 3-position Selector Switch Body

### Position 315°



Push	Position	Тор			
Bottom					
Location		Left	Centre	Right	
State		1	1	0	
Contacts	N/O		closed	closed	open
N/C		open	open	closed	

### Position 0°



Push	Position	Тор			
Bottom	Δ	Δ	Δ		
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		Left	Centre	Right	
State		0	1	1	
Contacts	N/O	•	open	closed	closed
N/C		closed	open	open	