## **ZB5AFDA**

# key-operated pushbutton head Ø22 push-turn release Dom 4A185





### Main

Range of product	Harmony XB5
Product or component type	Head for non-illuminated push-button
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	Turn to release
Operator profile	Key switch
Type of keylock	Dom 4A185
Key withdrawal position	Both positions
Locking position	Both positions

## Complementary

CAD overall width	1.14 in (29 mm)	
CAD overall height	1.14 in (29 mm)	
CAD overall depth	2.44 in (62 mm)	
Net Weight	0.11 lb(US) (0.05 kg)	
Mechanical durability	500000 cycles	
Station name	XALD 15 cut-outs XALK 25 cut-outs	
Electrical composition code	C12 for <6 contacts using single blocks in front mounting C15 1 single front mounting SF1 3 single front mounting SR1 3 single rear mounting C13 for <6 contacts using single and double blocks in front mounting	

#### Environment

Protective treatment	TH			
Ambient air temperature for storage	-40158 °F (-4070 °C)			
Ambient air temperature for operation	-13158 °F (-2570 °C)			
Electrical shock protection class	Class II IEC 60536			
IP degree of protection	IP66 IEC 60529			
NEMA degree of protection	NEMA 13 NEMA 4X			
Resistance to high pressure washer	1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m			
IK degree of protection	IK03 IEC 50102			
Standards	EN/IEC 60947-5-5 JIS C8201-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-1 EN/IEC 60947-1 CSA C22.2 No 14 UL 508 JIS C8201-1			

Product certifications	CSA
	DNV
	GL
	BV
	LROS (Lloyds register of shipping)
	UL Listed
	RINA
Vibration resistance	5 gn 2500 Hz)IEC 60068-2-6
Shock resistance	30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC
	60068-2-27
	50 gn 11 ms) half sine wave acceleration IEC 60068-2-27

## Ordering and shipping details

are an arming an arming	
Category	22467 - PUSHBUTTONS,22MM(PLASTIC) NEW
Discount Schedule	CS2
GTIN	00785901531562
Nbr. of units in pkg.	1
Package weight(Lbs)	0.11 lb(US) (0.05 kg)
Returnability	No
Country of origin	FR
,	* * *

## Packing Units

Package 1 Height	0.870 dm
Package 1 width	0.340 dm
Package 1 Length	0.520 dm

## Offer Sustainability

Sustainable offer status	Green Premium product  WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and 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		
California proposition 65			
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		
RoHS exemption information	₫Yes		
China RoHS Regulation	☑ China RoHS Declaration		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End Of Life Information		

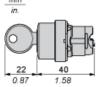
## Contractual warranty

Warranty	18 months

# Product data sheet Dimensions Drawings

## **ZB5AFDA**

## **Dimensions**

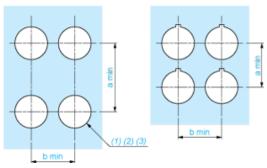




## **ZB5AFDA**

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

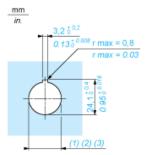
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.  $\emptyset$ 22.5 mm recommended ( $\emptyset$ 22.3  $_0$   $^{+0.4}$ ) /  $\emptyset$ 0.89 in. recommended ( $\emptyset$ 0.88 in.  $_0$   $^{+0.016}$ )

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

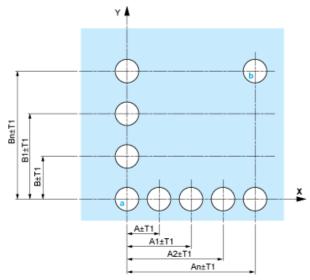
### **Detail of Lug Recess**



- (1) Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- Ø22.5 mm recommended (Ø22.3  $_0$  <sup>+0.4</sup>) / Ø0.89 in. recommended (Ø0.88 in.  $_0$  <sup>+0.016</sup>)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

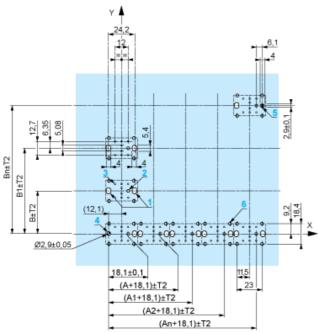
## Panel Cut-outs (Viewed from Installer's Side)



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

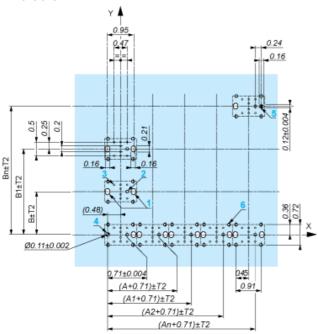
## Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

## Dimensions in mm



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

#### Dimensions in in.



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

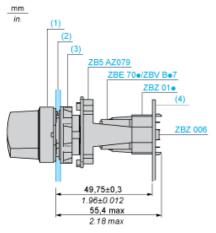
#### General Tolerances of the Panel and Printed Circuit Board

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).
  - 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•.

## **ZB5AFDA**

Electrical Composition Corresponding to Code C12
Electrical Composition Corresponding to Code C13
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
Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1
Legend
Single contact

Double contact



Light block



Possible location

