## ZB5AD48C0

Harmony XB5, Toggle switch head, plastic, black, Ø22, 2 positions, spring return, grey bezel



#### Main

Range of Product	Harmony XB5
Product or Component Type	Head for selector switch
Device short name	ZB5
Bezel material	Plastic colour plated grey
Mounting diameter	0.87 in (22 mm)
Sale per indivisible quantity	1
Head type	Standard
Shape of signaling unit head	Round
Type of operator	Spring return
Operator profile	Black toggle switch
Operator additional information	Black lever
Operator position information	2 positions 90°

#### Complementary

Basic element
SR1 3 single rear mounting C13 6 single and double front mounting
SF1 3 single front mounting
C15 1 single front mounting
C12 6 single front mounting
C11 3 single front mounting
XALK 25 cut-outs
XALD 15 cut-outs
500000 cycles
0.05 lb(US) (0.023 kg)
1.77 in (45 mm)
1.14 in (29 mm)
1.14 in (29 mm)

#### 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 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	IK06		
Standards  UL 508  EN/IEC 60947-5-4  EN/IEC 60947-5-1  JIS C8201-5-1  CSA C22.2 No 14  EN/IEC 60947-1  JIS C8201-1			

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

## Ordering and shipping details

Category	22467-PUSHBUTTONS,22MM(PLASTIC) NEW	
Discount Schedule	CS2	
GTIN	3606489763442	
Nbr. of units in pkg.	1	
Package weight(Lbs)	0.81 oz (23.0 g)	
Returnability	No	

## Packing Units

Unit Type of Package 1	PCE	
Package 1 Height	1.65 in (4.2 cm)	
Package 1 width	1.30 in (3.3 cm)	
Package 1 Length	2.05 in (5.2 cm)	

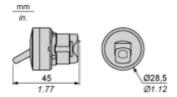
#### Offer Sustainability

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California proposition 65	WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defect or other reproductive harm. For more information go to www.P65Warnings.ca.g		
REACh Regulation	REACh Declaration		
REACh free of SVHC	Yes		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
Toxic heavy metal free	Yes		
Mercury free	Yes		
RoHS exemption information	₫Yes		
China RoHS Regulation	China RoHS Declaration		

# Product data sheet Dimensions Drawings

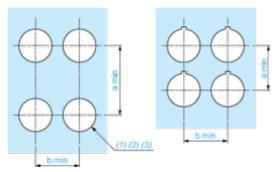
## ZB5AD48C0

#### **Dimensions**



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

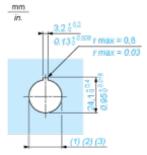
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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

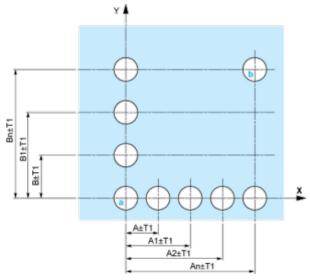
#### **Detail of Lug Recess**



- (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  $_0$  <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)

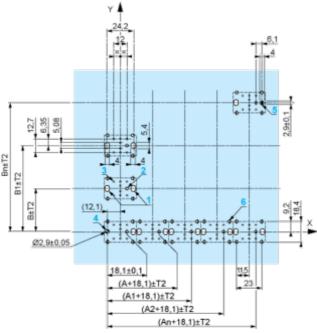


A: 30 mm min. / 1.18 in. min.

B: 40 mm min. / 1.57 in. min.

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

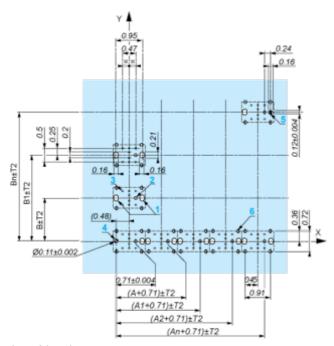
#### Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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

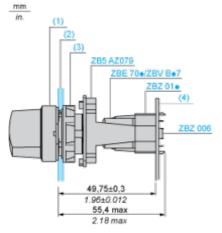
#### General Tolerances of the Panel and Printed Circuit Board

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:
  - $\circ\quad$  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  $\pm$  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•.

# ZB5AD48C0

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
Electrical Composition Corresponding to Code C12
Flactuical Communities Communities to Code C42
Electrical Composition Corresponding to Code C13
Legend
Single contact

Double contact

Light block

Possible location

