# Product data sheet Characteristics

# ZB5AG03D

Head for key selector switch, Harmony XB5, Ø22 mm 3 position spring return Dom 8D1



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Range of Product	Harmony XB5
Product or Component Type	Head for key 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 key switch
Operator position information	3 positions +/- 45°
Type of Keylock	Dom 8D1
Key withdrawal position	Left and center

#### Complementary

Complementary					
CAD overall width	1.14 in (29 mm)				
CAD overall height	1.14 in (29 mm)				
CAD overall depth	2.83 in (72 mm)				
Net Weight	0.13 lb(US) (0.057 kg)				
Mechanical durability	1000000 cycles				
Station name	XALD 15 cut-outs XALK 25 cut-outs				
Electrical composition code	C4 6 single and double front mounting C5 5 single front mounting C6 5 single and double front mounting C7 4 single front mounting C8 4 single and double front mounting C11 3 single front mounting C3 6 single front mounting SF1 3 single front mounting SR1 3 single rear mounting				
Device presentation	Basic element				
Environment					
Protective treatment	ТН				
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 IP67 IP69 IP69K				
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 IEC 50102				

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentations not intended as a substitute for and is not to be used for determining substity of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or substitiaries shall be responsible or liable for misues of the information contained herein.

EN/IEC 60947-1	
EN/IEC 60947-5-1	
UL 508	
CSA C22.2 No 14	
JIS C8201-5-1	
EN/IEC 60947-5-4	
JIS C8201-1	
DNV	
UL Listed	
GL	
BV	
CSA	
LROS (Lloyds register of shipping)	
5 gn 2500 Hz)IEC 60068-2-6	
30 gn 18 ms) half sine wave acceleration IEC 60068-2-27	
50 gn 11 ms) half sine wave acceleration IEC 60068-2-27	
	EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14 JIS C8201-5-1 EN/IEC 60947-5-4 JIS C8201-1 DNV UL Listed GL BV CSA LROS (Lloyds register of shipping) 5 gn 2500 Hz)IEC 60068-2-6 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27

# Ordering and shipping details

Category	22467 - PUSHBUTTONS,22MM(PLASTIC) NEW
Discount Schedule	CS2
GTIN	3389110136609
Nbr. of units in pkg.	1
Package weight(Lbs)	2.29 oz (65 g)
Returnability	No
Country of origin	FR

# Packing Units

Unit Type of Package 1	PCE
Package 1 Height	3.43 in (8.7 cm)
Package 1 width	1.34 in (3.4 cm)
Package 1 Length	2.05 in (5.2 cm)
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Weight	11.53 oz (327 g)
Package 2 Height	3.43 in (8.7 cm)
Package 2 width	1.34 in (3.4 cm)
Package 2 Length	10.24 in (26 cm)
Unit Type of Package 3	S02
Number of Units in Package 3	50
Package 3 Weight	7.92 lb(US) (3.592 kg)
Package 3 Height	5.91 in (15 cm)
Package 3 width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)

## Offer Sustainability

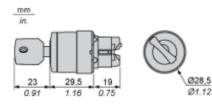
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	<b>₽</b> Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	

Warranty

18 months

Product data sheet Dimensions Drawings ZB5AG03D

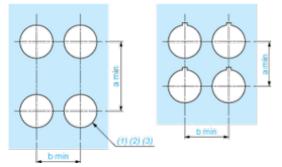
# Dimensions



# ZB5AG03D

#### 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



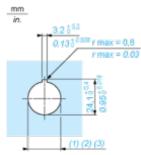
(1) Diameter on finished panel or support

(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  $_0$  <sup>+0.4</sup>) / Ø0.89 in. recommended (Ø0.88 in.  $_0$  <sup>+0.016</sup>)

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**



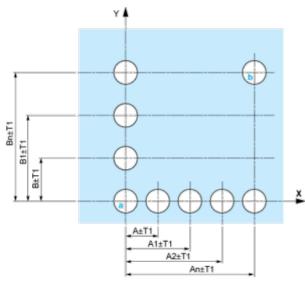
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Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

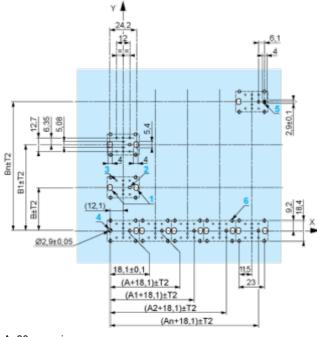


A: 30 mm min. / 1.18 in. min.

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

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

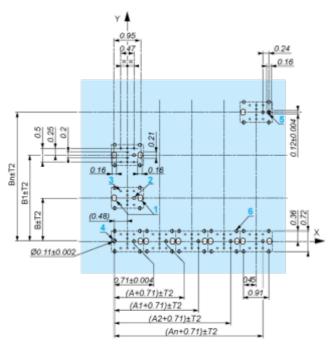
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.





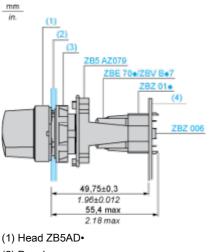
# General Tolerances of the Panel and Printed Circuit Board

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<sup>°</sup> 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.



- (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•
- 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  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ01+.

ZB5AG03D

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 Code C8

Electrical Composition Corresponding to Code C3

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

jend	
le contact	
ble contact	
t block	
sible location	
quence of Contacts Fitted to 3-position Selector Switch Body	

## Position 315°

315°					
Push	Position	Тор			
Bottom			$\bigtriangleup$		
Location		Left	Centre	Right	
State		1	1	0	
Contacts	N/O		closed	closed	open
N/C		open	open	closed	

# Position 0°

# 0°

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