# Product data sheet Characteristics

# ZB5AD7C0

Harmony XB5, Selector switch head, plastic, black, Ø22, 3 positions, spring return from left to center, 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 diamete	0.87 in (22 mm)
Head type	Standard
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Left to centre spring return
Operator profile	Black standard handle
Operator position information	3 positions +/- 45°

#### Complementary

SF1 3 single front mounting SR1 3 single rear mounting	
SF1 3 single front mounting	
C11 3 single front mounting	
C8 4 single and double front mounting	
C7 4 single front mounting	
C3.6 single front mounting	
XALK 25 cut-outs	
XALD 15 cut-outs	
1000000 cycles	
0.04 lb(US) (0.017 kg)	
1.81 in (46 mm)	
1.14 in (29 mm)	
	0.04 lb(US) (0.017 kg)   1000000 cycles   XALD 15 cut-outs   XALK 25 cut-outs   C3 6 single front mounting   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   C1 3 single 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 IEC 60536
IP degree of protection	IP67 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 conforming to IEC 50102
Standards	IEC 60947-5-1 CSA C22.2 No 14 UL 508 IEC 60947-1 IEC 60947-5-4 JIS C8201-5-1 JIS C8201-1

Product Certifications	GL[RETURN]BV[RETURN]CSA[RETURN]LROS (Lloyds register of shipping) [RETURN]DNV[RETURN]UL Listed
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	US10CS222467	
Discount Schedule	0CS2	
GTIN	3606489763763	
Returnability	No	
Country of origin	FR	

#### Packing Units

0		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
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)	
Package 1 Weight	0.85 oz (24.0 g)	

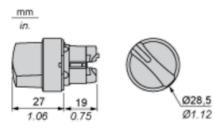
## Offer Sustainability

REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <b>EU RoHS</b> Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	₽ Yes

Product data sheet **Dimensions Drawings** 

ZB5AD7C0

#### Dimensions



# ZB5AD7C0

#### 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**



(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

#### Life Is On Schneider

#### 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:
  - 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.



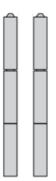
#### Mounting of Adapter (Socket) ZBZ01•

- 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 ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

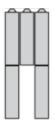
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### Electrical Composition Corresponding to Code C3



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

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

#### Position 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°



$\oplus$						
Push	Position	Тор	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	