

# Product data sheet **Characteristics**

**ZB5AD203** green selector switch head Ø22 2-position stay put



	Main					
	Range of product Harmony XB5					
	Product or component type	Head for selector switch				
	Device short name	ZB5				
	Bezel material	Dark grey plastic				
	Mounting diameter 22 mm					
	Head type Standard					
	Sale per indivisible quantity	1				
	Shape of signaling unit head	Round				
	Type of operator	Stay put				
	Operator profile	Green standard handle				
	Operator position information	2 positions 90°				
Complementary						
CAD overall width	29 mm					
CAD overall height	29 mm					
CAD overall depth	46 mm					
Net weight	0.017 kg	0.017 kg				
Mechanical durability	1000000 cycles					
Station name	XALD 15 cut-outs XALK 25 cut-outs					
Electrical composition code	C3 for <6 contacts using single blocks in front mounting C4 for <6 contacts using single and double blocks in front mounting C5 for <5 contacts using single blocks in front mounting C6 for <5 contacts using single blocks in front mounting C7 for <4 contacts using single blocks in front mounting C8 for <4 contacts using single blocks in front mounting C11 for <3 contacts using single blocks in front mounting C15 for <1 contacts using single blocks in front mounting SF1 for <3 contacts using single blocks in front mounting SR1 for <3 contacts using single blocks in rear mounting					
Device presentation	Basic element					
Environment						
Protective treatment	TH					
Ambient air temperature for storage	-4070 °C					
Ambient air temperature for operation	-4070 °C					
Overvoltage category	Class II conforming to IEC 60536					
IP degree of protection	IP67 conforming to IEC 60529 IP69 conforming to IEC 60529 IP69K					
NEMA degree of protection	NEMA 13 NEMA 4X					
Resistance to high pressure washer	7000000 Pa at 55 °C, dis	tance : 0.1 m				
IK degree of protection	IK06 conforming to IEC 5	0102				
May 2, 2024	Life le (ba					



Standards	JIS C8201-5-1 EN/IEC 60947-1 UL 508 EN/IEC 60947-5-4 CSA C22.2 No 14		
	EN/IEC 60947-5-1 JIS C8201-1		
Product certifications	CSA[RETURN]LROS (Lloyds register of shipping) [RETURN]DNV[RETURN]GL[RETURN]UL listed[RETURN]BV		
Vibration resistance	5 gn (f= 2500 Hz) conforming to IEC 60068-2-6		
Shock resistance	30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27		

# Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.2 cm
Package 1 Width	3.6 cm
Package 1 Length	4.8 cm
Package 1 Weight	23 g
Unit Type of Package 2	S02
Number of Units in Package 2	100
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	2.64 kg
Package 3 Height	4.2 cm

## Offer Sustainability

Sustainable offer status	Green Premium product			
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			
China RoHS Regulation	China RoHS Declaration			
RoHS exemption information	<b>₽</b> Yes			
Environmental Disclosure	Product Environmental Profile			
Circularity Profile	End Of Life Information			

# Contractual warranty

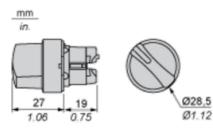
Warranty

18 months

Product data sheet **Dimensions Drawings** 

**ZB5AD203** 

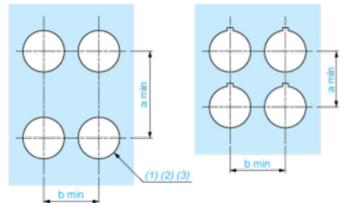
### Dimensions



# ZB5AD203

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

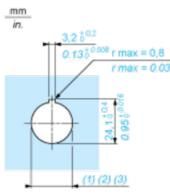
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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

#### 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.



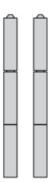
#### Mounting of Adapter (Socket) ZBZ01•

- 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•.

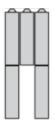
ZB5AD203

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 2-position Selector Switch Body

### Position 315°



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					
Location		Left	Centre	Right	
State		1	1	1	
Contacts	N/O		closed	closed	closed
N/C		open	open	open	