### Product data sheet Characteristics

## ZB5AG02D

Head for key selector switch, Harmony XB5, plastic, black, 22mm, key 8D1, 2 positions, stay put

Harmony XB5



#### Main

Range of product

	italige of product	
	Product or component type	Head for key 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	Black key switch
	Operator position information	2 positions 90°
	Type of keylock	Dom 8D1
	Key withdrawal position	Right
Complementary		
CAD overall width	29 mm 29 mm	
CAD overall width CAD overall height		
CAD overall width CAD overall height CAD overall depth	29 mm	
CAD overall width CAD overall height CAD overall depth Net weight	29 mm 72 mm	
CAD overall width CAD overall height CAD overall depth Net weight Mechanical durability	29 mm 72 mm 0.057 kg	
Complementary CAD overall width CAD overall height CAD overall depth Net weight Mechanical durability Station name Electrical composition code	29 mm 72 mm 0.057 kg 1000000 cycles XALD 15 cut-outs XALK 25 cut-outs C4 for <6 contacts using s C5 for <5 contacts using s C6 for <5 contacts using s C7 for <4 contacts using s C8 for <4 contacts using s C11 for <3 contacts using s SF1 for <3 contacts using s SF1 for <3 contacts using	ingle and double blocks in front mounting ingle blocks in front mounting ingle and double blocks in front mounting ingle and double blocks in front mounting single blocks in front mounting

#### 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	IP66 conforming to IEC 60529 IP67 IP69 IP69K	
NEMA degree of protection	NEMA 13 NEMA 4X	

Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m		
IK degree of protection	IK06 conforming to IEC 50102		
Standards	UL 508 IEC 60947-5-4 JIS C8201-5-1 IEC 60947-1 CSA C22.2 No 14 IEC 60947-5-1 JIS C8201-1		
Product certifications	UL listed[RETURN]GL[RETURN]BV[RETURN]DNV[RETURN]LROS (Lloyds register of shipping)[RETURN]CSA		
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	8.8 cm
Package 1 Width	3.4 cm
Package 1 Length	5.4 cm
Package 1 Weight	68 g
Unit Type of Package 2	S03
Number of Units in Package 2	100
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.297 kg

#### Offer Sustainability

Sustainable offer status	Green Premium product			
REACh Regulation	REACh Declaration			
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
Mercury free	Yes			
China RoHS Regulation	China RoHS Declaration			
RoHS exemption information	🗗 Yes			
Environmental Disclosure	Product Environmental Profile			
Circularity Profile	End Of Life Information			

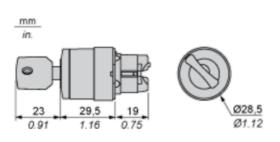
#### Contractual warranty

Warranty

18 months

Product data sheet Dimensions Drawings ZB5AG02D

## Dimensions





## ZB5AG02D

#### 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•

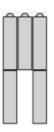
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ01•
- 38 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning 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•.

ZB5AG02D

Electrical Composition Corresponding to Code C4

#### Electrical Composition Corresponding to Code C5

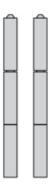


Electrical Composition Corresponding to Code C6

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

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