



Head for illuminated selector switch, Harmony XB4, metal, white handle, 22mm, universal LED, 2 positions, stay put

ZB4BK1213

#### Main

Range of product	Harmony XB4			
Product or component type	Head for illuminated selector switch			
Product compatibility	Universal LED			
Device short name	ZB4			
Bezel material	Chromium plated metal			
Head type	Standard			
Mounting diameter	22 mm			
Sale per indivisible quantity	1			
Shape of signaling unit head	Round			
Type of operator	stay put			
Operator profile	White standard handle			
Operator position information	2 positions 90°			

#### Complementary

CAD overall width	29 mm
CAD overall height	29 mm
CAD overall depth	43 mm
Product weight	0.036 kg
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m
Mechanical durability	1000000 cycles
Electrical composition code	M3 for <4 contacts using single blocks in front mounting with integral LED M6 for <2 contacts using single blocks in front mounting with integral LED and transformer M10 for <2 contacts using single blocks in front mounting with integral LED M4 for <4 contacts using single and double blocks in front mounting with integral LED
Device presentation	Basic element

### **Environment**

Protective treatment	тн
Ambient air temperature for storage	-4070 °C

Ambient air temperature for operation	-4070 °C
Overvoltage category	Class I conforming to IEC 60536
IP degree of protection	IP66 conforming to IEC 60529 IP67 IP69 IP69K
NEMA degree of protection	NEMA 13 NEMA 4X
IK degree of protection	IK06 conforming to IEC 50102
Standards	EN/IEC 60947-5-1 JIS C8201-5-1 UL 508 EN/IEC 60947-5-5 EN/IEC 60947-1 CSA C22.2 No 14 EN/IEC 60947-5-4 JIS C8201-1
Product certifications	UL listed BV DNV GL LROS (Lloyds register of shipping) 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	3.500 cm
Package 1 Width	5.300 cm
Package 1 Length	5.400 cm
Package 1 Weight	41.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	250
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	10.889 kg
Unit Type of Package 3	P06
Number of Units in Package 3	2000
Package 3 Height	77.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	97.004 kg
Offer Sustainability	Croop Promium product
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) EU RoHS Declaration

Mercury free Yes  China RoHS Regulation China				
China RoHS Regulation China				
- · · · · · · · · · · · · · · · · · · ·	a RoHS declaration			
RoHS exemption information Yes	Yes			
Environmental Disclosure Produ	uct Environmental Profile			
Circularity Profile End of	of Life Information			

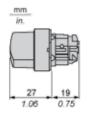
### **Contractual warranty**

Warranty 18 months

# **ZB4BK1213**

**Dimensions Drawings** 

### **Dimensions**





### **ZB4BK1213**

Mounting and Clearance

#### 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

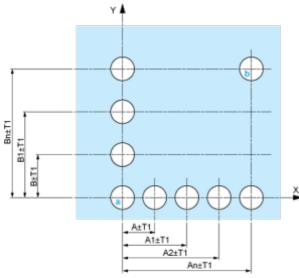
Connection by Faston Connectors

Connection by Faston Connectors

- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- **(4)** Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm  $_0^{+0.4}$  / 0.88 in.  $_0^{+0.016}$ )
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

#### Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

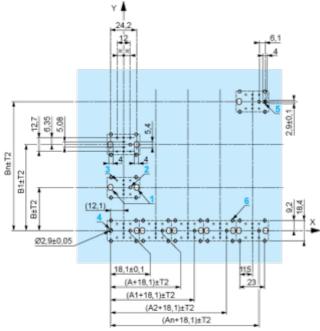


A: 30 mm min. / 1.18 in. min.

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

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

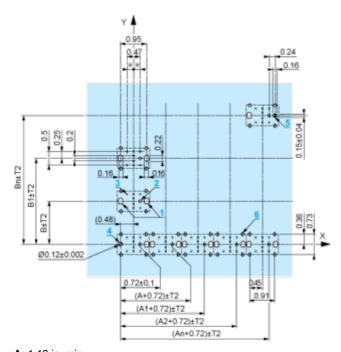
Dimensions in mm



A: 30 mm min.

**B**: 40 mm min.

Dimensions in in.



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

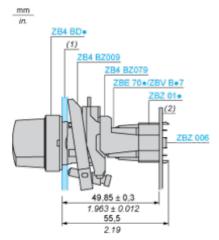
#### General Tolerances of the Panel and Printed Circuit Board

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 ZB4 BZ009: ± 2°30' (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ 006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB4 BZ079 fixing collar/pillar and its fixing screws:
  - o every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - o with each selector switch head (ZB4 BD•, ZB4 BJ•, ZB4 BG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



- (1) Panel
- (2) Printed circuit board

#### Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 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)
- $\bullet~$  6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01  $\bullet~$

Dimensions An + 18.1 relate to the Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ 01•.

**ZB4BK1213** 

Technical Description

**Electrical Composition Corresponding to Code M3** 



## **ZB4BK1213**

Technical Description

**Electrical Composition Corresponding to Code M4** 



## **ZB4BK1213**

Technical Description

**Electrical Composition Corresponding to Codes M6 and P2** 



## **ZB4BK1213**

Technical Description

Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



Life Is On Schneider

# **ZB4BK1213**

**Technical Description** 

Lea	en	d
	$\sim$ .	•

Single contact



Double contact



Light block



Possible location



## **ZB4BK1213**

Technical Description

### Sequence of Contacts Fitted to 2-position Selector Switch Body

#### Position 315°



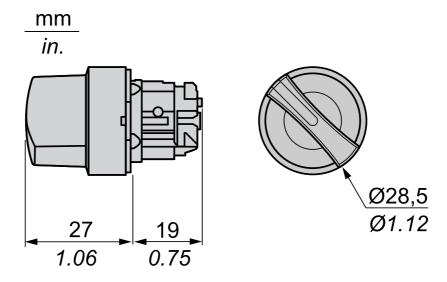
Push	Position	Тор		
		Bottom	$\triangle$	$\triangle$
	Location		Left	Right
	State		0	0
Contacts	N/O		open	open
	N/C		closed	closed

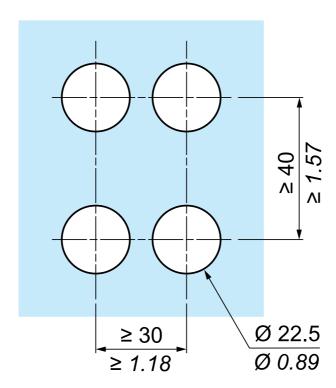
#### Position 45°



Push	Position	Тор		Π	
		Bottom			
	Location		Left		Right
	State		1	$\otimes$	1
Contacts	N/O		closed		closed
	N/C		open		open

#### **Dimensions**





Recommended replacement(s)