

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

Local distributor code: 237117410 ZB4BK1213

Important message: A change in appearance may be noted on the product but does not affect its use in terms of function and safety. This makes it compatible with our Universal LED blocks

EAN Code: 3389110890426

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			
Net 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 TH

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	IK04 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
Offen Suckainakilik	
Offer Sustainability Sustainable offer status	Green Premium product
	REACh Declaration
REACh Regulation	

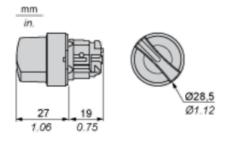
REACh free of SVHC	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration				
EU RoHS Directive					
Toxic heavy metal free	Yes				
Mercury free	Yes				
China RoHS Regulation	China RoHS declaration				
RoHS exemption information	Yes				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	End of Life Information				

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)

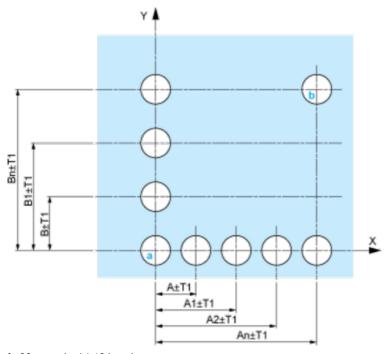
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board

(1)
(2)
(3)
(4)

- (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

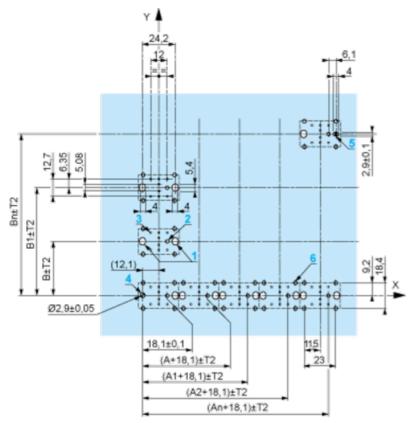
Panel Cut-outs (Viewed from Installer's Side)



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)

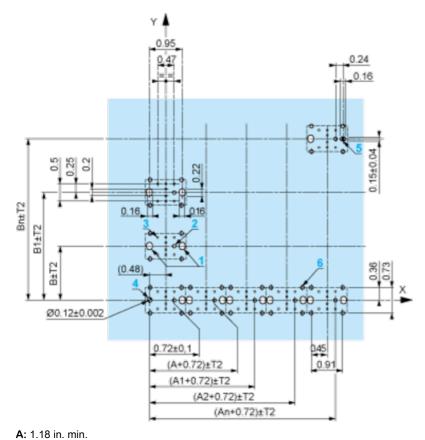
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



B: 1.57 in. min.

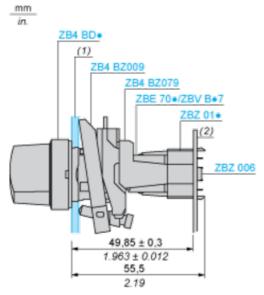
General Tolerances of the Panel and Printed Circuit Board

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).
 - \circ $\,$ with each selector switch head (ZB4 BD•, ZB4 BJ•, ZB4 BG•).

The fixing centers marked ${\bf a}$ and ${\bf b}$ are diagonally opposed and must align with those marked ${\bf 4}$ and ${\bf 5}$.



- (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 \pm 0.05 / 0.11 in. \pm 0.002, for aligning the printed circuit board (with cut-out marked a)
- ${\bf 5}$ 1 elongated hole for aligning the printed circuit board (with cut-out marked ${\bf b}$)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

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

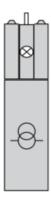
Electrical Composition Corresponding to Code M4



ZB4BK1213

Technical Description

Electrical Composition Corresponding to Codes M6 and P2



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Technical Description

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



ZB4BK1213

Technical Description

Lea	en	d
Leg	en	u

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

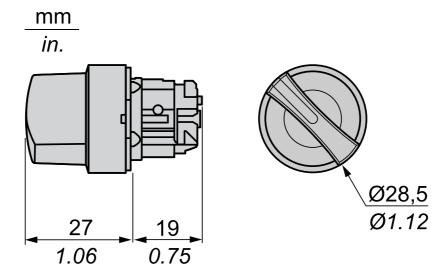
Position 45°

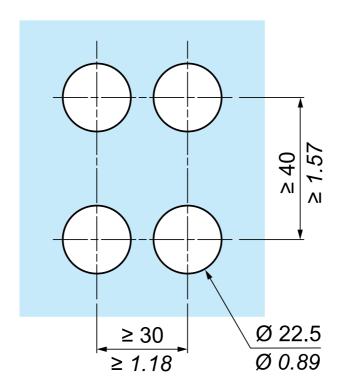


Push	Position	Тор		П	
		Bottom			
	Location		Left		Right
	State		1	\otimes	1
Contacts	N/O		closed		closed
	N/C		open		open

Technical Illustration

Dimensions





Recommended replacement(s)

15