Specifications



Head for illuminated selector switch, Harmony XB4, metal, orange handle, 22mm, universal LED, 3 positions, right to center

ZB4BK1853

Main

mann				
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 Diamete	22.5 mm			
Sale Per Indivisible Quantity	1			
Shape Of Signaling Unit Head	Round			
Type Of Operator	Right to centre spring return			
Operator Profile	Orange standard handle			
Operator Position Information	3 positions +/- 45°			
Cap/Operator Or Lens Colour	Orange			

Complementary

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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	e 7000000 Pa at 55 °C, distance : 0.1 m			
Mechanical Durability 500000 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	IK04 conforming to IEC 50102		
Standards	IEC 60947-5-4 IEC 60947-5-5 IEC 60947-1 JIS C8201-5-1 UL 508 IEC 60947-5-1 CSA C22.2 No 14 JIS C8201-1		
Product Certifications	DNV BV UL listed CSA GL LROS (Lloyds register of shipping)		
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 60068-2-27 50 gn (duration = 11 ms) for half sine wave acceleration conforming to 60068-2-27			

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.3 cm
Package 1 Width	4.8 cm
Package 1 Length	5.2 cm
Package 1 Weight	41 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	5
Package 2 Height	4.8 cm
Package 2 Width	26.5 cm
Package 2 Length	3.3 cm
Package 2 Weight	208 g
Unit Type Of Package 3	S03
Number Of Units In Package 3	250
Package 3 Height	30 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	11.059 kg

Contractual warranty

Warranty

18 months

Sustainability

Green Premium[™] label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

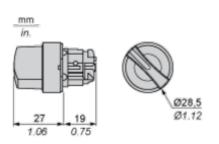
Guide to assess a product's sustainability >

Well-being performance

	Reach Free Of Svhc	
	Toxic Heavy Metal Free	
	Mercury Free	
	Rohs Exemption Information	Yes
Rea	ch Regulation	REACh Declaration
Eu f	Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Chiı	na Rohs Regulation	China RoHS declaration

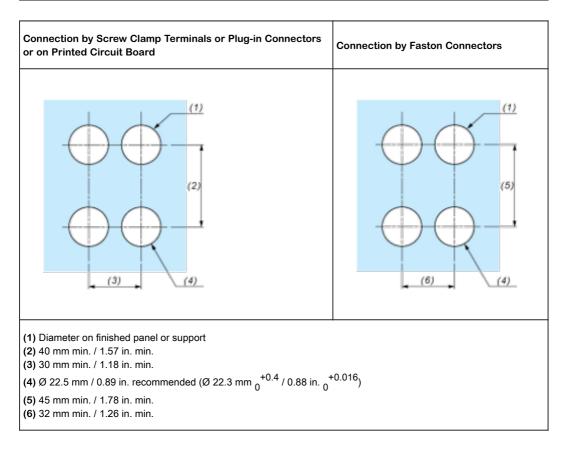
Dimensions Drawings

Dimensions



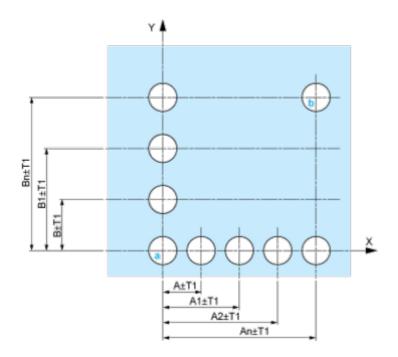
Mounting and Clearance

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



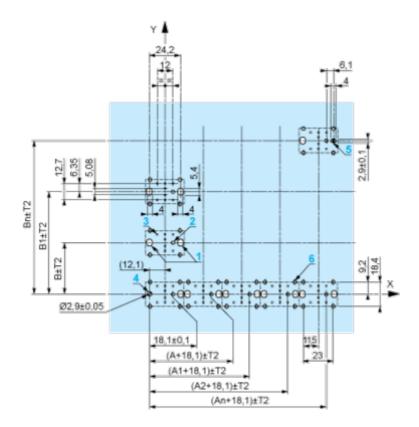
Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

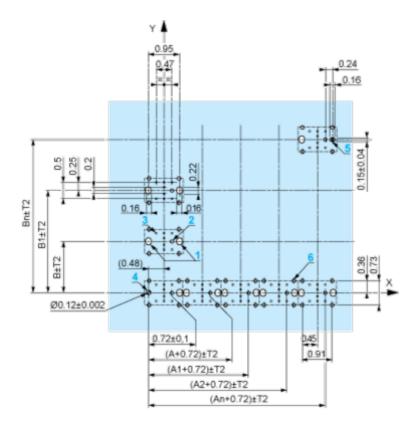


A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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.

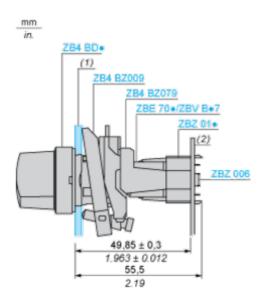
General Tolerances of the Panel and Printed Circuit Board

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:
 - 。 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

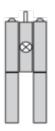
Mounting of Adapter (Socket) ZBZ 01•

- 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 \pm 0.05 / 0.11 in. \pm 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 ZBZ 01•

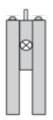
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ 01•.

Technical Description

Electrical Composition Corresponding to Code M3



Electrical Composition Corresponding to Code M4



Electrical Composition Corresponding to Codes M6 and P2



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



Legend

Single contact



Double contact



Light block



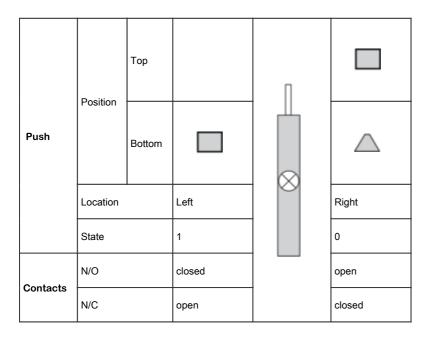
Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

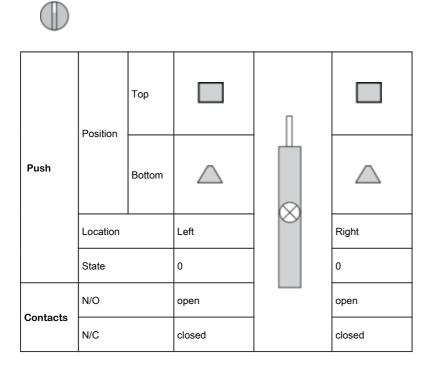
Position 315°





Position 0°

0°



Position 45°



Push	Position	Тор			
		Bottom	\bigtriangleup		
	Location		Left	\sim	Right
	State		0		1
Contacts	N/O		open		closed
	N/C		closed		open