

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

ZB4BK1853

Important message: Viktig information: en förändring i utseendet kan observeras på produkten, men detta påverkar inte dess användning i termer av funktion och säkerhet. Detta gör den kompatibel med våra Universal LED-block

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	22.5 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

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	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 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	3.3 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

May 19, 2024

18 months

Sustainability

Green PremiumTM 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 >





Transparency RoHS/REACh

Well-being performance

✓ Reach Free Of Svhc
 ✓ Toxic Heavy Metal Free
 ✓ Mercury Free
 ✓ Rohs Exemption Information

Certifications & Standards

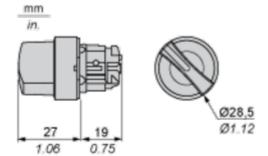
Reach Regulation	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration				
Eu Rohs Directive					
China Rohs Regulation	China RoHS declaration				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	End of Life Information				
California Proposition 65	WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov				

Product data sheet

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Dimensions Drawings

Dimensions



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Mounting and Clearance

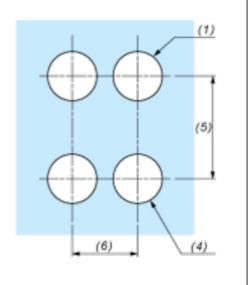
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

Connectors or on Printed Circuit Board

(1)
(2)

Connection by Screw Clamp Terminals or Plug-in

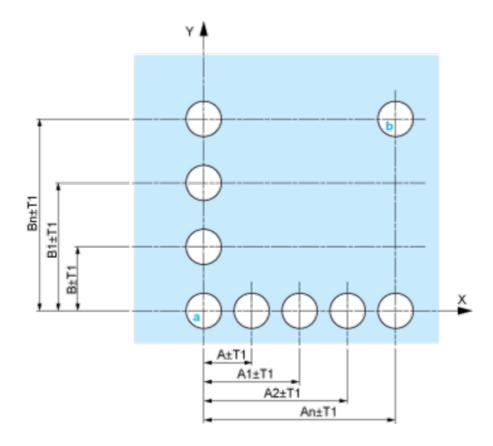
Connection by Faston Connectors



- (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)

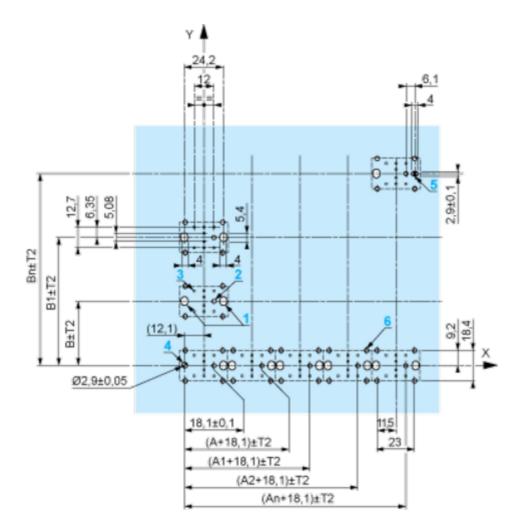


A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

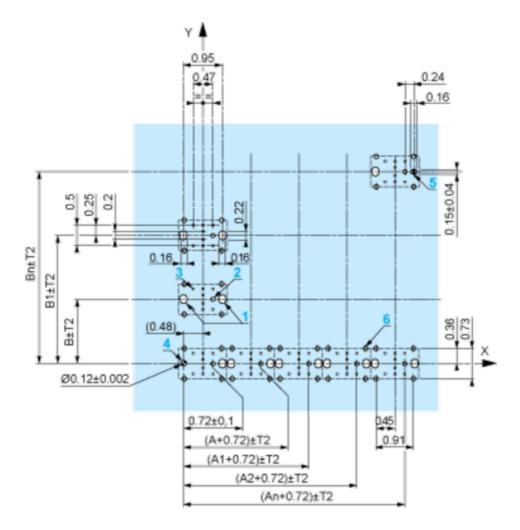
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm

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A: 30 mm min. **B:** 40 mm min.



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

General Tolerances of the Panel and Printed Circuit Board

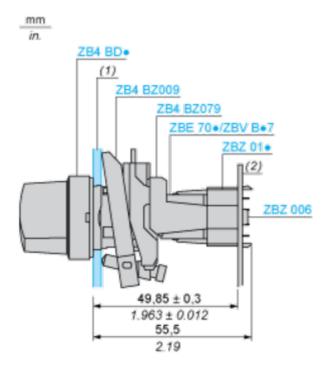
The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

Installation Precautions

- $_{\bullet}$ 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:
 - $_{\circ}\;$ 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.

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(1) Panel

10

(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)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

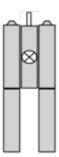
Dimensions An + 18.1 relate to the \emptyset 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ 01•.

Product data sheet

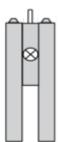
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Technical Description

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

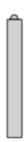


Legend

Single contact



Double contact



Light block



Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



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

Position 0°



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

Position 45°



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