

blue illuminated selector switch head Ø22 2-position stay put

Local distributor code: 237118383 ZB4BK1263

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Range of product	Harmony XB4
Product or component type	Head for illuminated selector switch
Product compatibility	Integral 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	Blue 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	IK06 conforming to IEC 50102
Standards	UL 508 JIS C8201-5-1 EN/IEC 60947-1 CSA C22.2 No 14 EN/IEC 60947-5-5 EN/IEC 60947-5-1 EN/IEC 60947-5-4 JIS C8201-1
Product certifications	LROS (Lloyds register of shipping) UL listed DNV BV GL 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 Weight	
	42.0 g
Package 1 Height	42.0 g 3.5 cm
Package 1 width	3.5 cm
Package 1 width Package 1 Length	3.5 cm 5.4 cm
Package 1 width Package 1 Length Unit Type of Package 2	3.5 cm 5.4 cm
Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2	3.5 cm 5.4 cm 5.2 cm
Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight	3.5 cm 5.4 cm 5.4 cm S02
Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height	3.5 cm 5.4 cm 5.4 cm 502 100 4.483 kg
Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height Package 2 width	3.5 cm 5.4 cm 5.4 cm S02 100 4.483 kg 15 cm
Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height Package 2 width Package 2 Length Package 3 Height	3.5 cm 5.4 cm 5.4 cm S02 100 4.483 kg 15 cm 30 cm
Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height Package 2 width Package 2 Length	3.5 cm 5.4 cm 5.4 cm S02 100 4.483 kg 15 cm 30 cm 40 cm
Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height Package 2 width Package 2 Length Package 3 Height	3.5 cm 5.4 cm 5.4 cm S02 100 4.483 kg 15 cm 30 cm 40 cm
Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height Package 2 width Package 2 Length Package 3 Height Offer Sustainability	3.5 cm 5.4 cm 5.4 cm 502 100 4.483 kg 15 cm 30 cm 40 cm
Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height Package 2 width Package 2 Length Package 3 Height Offer Sustainability Sustainable offer status	3.5 cm 5.4 cm 5.4 cm S02 100 4.483 kg 15 cm 30 cm 40 cm 15 cm

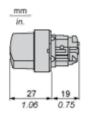
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration

Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
Contractual warranty	
Warranty	18 months

ZB4BK1263

Dimensions Drawings

Dimensions





ZB4BK1263

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

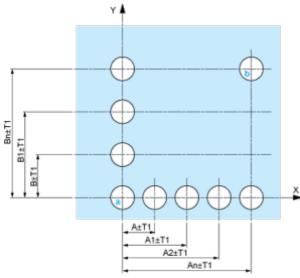
Connection by Faston Connectors

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)

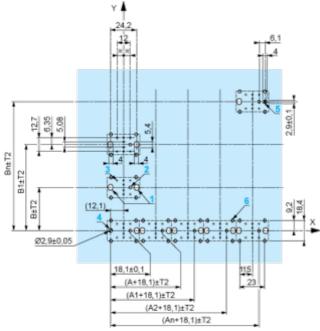


A: 30 mm min. / 1.18 in. min.

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•.

ZB4BK1263

Technical Description

Electrical Composition Corresponding to Code M3



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Technical Description

Electrical Composition Corresponding to Code M4



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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



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Technical Description

Lea	en	d
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Single contact



Double contact



Light block



Possible location



ZB4BK1263

Technical Description

Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



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

Position 45°



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