

Important message: A change in appearance may be noted on the product but does not affect its use in terms of function and safety.

M	ain

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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	Orange standard handle				
Operator position information	3 positions +/- 45°				

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 ΤH

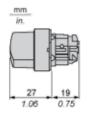
Ambient air temperature for operation Overvoltage category IP degree of protection IK degree of protection IK degree of protection IK degree of protection Standards JIS UL EN EN EN EN EN EN EN EN EN E	
Overvoltage category Cla IP degree of protection NEMA degree of protection IK degree of protection IK degree of protection Standards JIS UL EN EN EN EN EN EN EN EN EN E	ass I conforming to IEC 60536 66 conforming to IEC 60529 67 69 69K EMA 13 EMA 4X 06 conforming to IEC 50102 S C8201-5-1 L 508 N/IEC 60947-5-1 N/IEC 60947-5-4 N/IEC 60947-1
IP degree of protection NEMA degree of protection IK degree of protection IK degree of protection Standards JIS UL EN EN EN EN EN CS JIS Product certifications LR DN GL CS UL BV Vibration resistance 5 g Packing Units	66 conforming to IEC 60529 67 69 69K EMA 13 EMA 4X 06 conforming to IEC 50102 S C8201-5-1 L 508 N/IEC 60947-5-1 N/IEC 60947-5-4 N/IEC 60947-1
NEMA degree of protection IK degree of protection Standards JIS UL EN EN EN EN CS JIS Product certifications LR CS UL BV Vibration resistance Shock resistance Packing Units	67 69 69K EMA 13 EMA 4X 06 conforming to IEC 50102 S C8201-5-1 L 508 N/IEC 60947-5-1 N/IEC 60947-5-4 N/IEC 60947-1
IK degree of protection Standards JIS UL EN EN EN EN CS JIS Product certifications LR DN GL CS UL BV Vibration resistance Shock resistance Packing Units	EMA 4X 06 conforming to IEC 50102 S C8201-5-1 L 508 N/IEC 60947-5-1 N/IEC 60947-5-4 N/IEC 60947-1
Standards JIS ULL EN EN EN EN CS JIS Product certifications LR DN GL CS ULL BV Vibration resistance Shock resistance 5 g Packing Units	S C8201-5-1 L 508 N/IEC 60947-5-1 N/IEC 60947-5-4 N/IEC 60947-1
Product certifications Product certifications LR DN GL CS UL BV Vibration resistance 5 g Shock resistance 7 p Packing Units	L 508 N/IEC 60947-5-1 N/IEC 60947-5-4 N/IEC 60947-1
Vibration resistance 5 g Shock resistance 30 Facking Units	SA C22.2 No 14 S C8201-1
Shock resistance 30 50 Packing Units	L SA L listed
Packing Units	gn (f= 2500 Hz) conforming to IEC 60068-2-6
- 	gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27
- 	
Unit Type of Package 1 Db	b
Number of Units in Package 1 1	
Package 1 Height 5.0	000 cm
Package 1 Width 5.2	200 cm
Package 1 Length 3.3	300 cm
Package 1 Weight 42	2.000 g
Unit Type of Package 2 S0	02
Number of Units in Package 2 100	00
Package 2 Height 15.	5.000 cm
Package 2 Width 30.	0.000 cm
Package 2 Length 40.	0.000 cm
Package 2 Weight 4.3	327 kg
Offer Sustainability	
·	reen Premium product
REACh Regulation RE	
REACh free of SVHC Ye	EACh Declaration
Toxic heavy metal free Ye	
Mercury free Ye	ro-active compliance (Product out of EU RoHS legal scope) J RoHS Declaration
China RoHS Regulation Ch	ro-active compliance (Product out of EU RoHS legal scope) J RoHS Declaration
RoHS exemption information Ye	ro-active compliance (Product out of EU RoHS legal scope) J 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
Contractual warranty	
Warranty	18 months

ZB4BK1353

Dimensions Drawings

Dimensions





ZB4BK1353

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

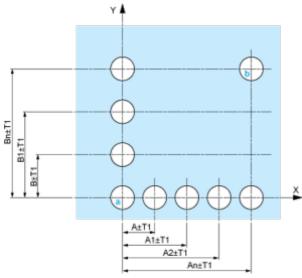
Connection by Faston Connectors

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)

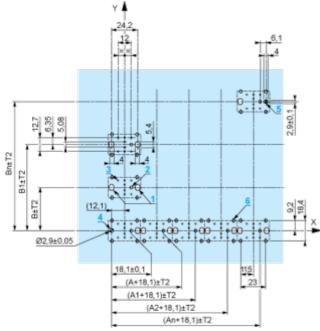


A: 30 mm min. / 1.18 in. min.

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

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

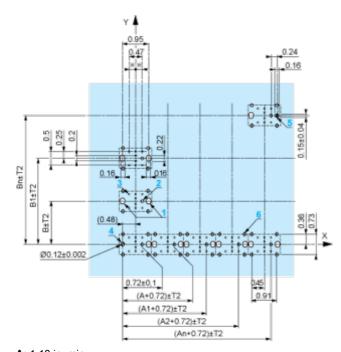
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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

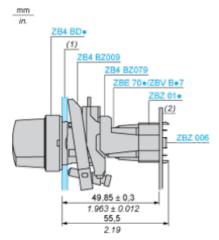
General Tolerances of the Panel and Printed Circuit Board

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 \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)
- $\bullet~$ 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•.

ZB4BK1353

Technical Description

Electrical Composition Corresponding to Code M3



ZB4BK1353

Technical Description

Electrical Composition Corresponding to Code M4



ZB4BK1353

Technical Description

Electrical Composition Corresponding to Codes M6 and P2



ZB4BK1353

Technical Description

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



Technical Description

Lea	en	d
-09		•

Single contact



Double contact



Light block



Possible location



ZB4BK1353

Technical Description

Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



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

Position 0°



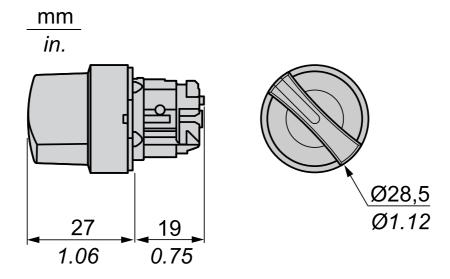
Push	Position	Тор			
		Bottom	\triangle		\triangle
	Location		Left		Right
	State		0	\otimes	0
Contacts	N/O		open		open
	N/C		closed		closed

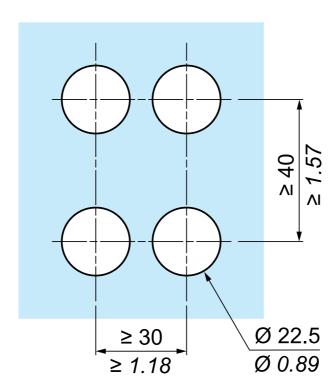
Position 45°



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

Dimensions





Recommended replacement(s)