Specifications



red illuminated selector switch head Ø22 2-position stay put

Local distributor code: 237118325 ZB4BK1243

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 : 3389110890440

Main

Man					
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	Red standard handle				
Operator position information	2 positions 90°				

Complementary

29 mm					
29 mm					
43 mm					
0.036 kg					
7000000 Pa at 55 °C, distance : 0.1 m					
1000000 cycles					
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					
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	IK06 conforming to IEC 50102			
Standards	JIS C8201-5-1 CSA C22.2 No 14 EN/IEC 60947-5-4 EN/IEC 60947-1 EN/IEC 60947-5-1 UL 508 EN/IEC 60947-5-5 JIS C8201-1			
Product certifications	DNV UL listed LROS (Lloyds register of shipping) CSA GL BV			
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

<u> </u>	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.500 cm
Package 1 Width	5.200 cm
Package 1 Length	5.400 cm
Package 1 Weight	41.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Height	4.800 cm
Package 2 Width	26.500 cm
Package 2 Length	3.300 cm
Package 2 Weight	207.000 g
Unit Type of Package 3	\$03
Number of Units in Package 3	250
Package 3 Height	30.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	10.816 kg

Offer Sustainability

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			
China RoHS Regulation	China RoHS declaration			
RoHS exemption information	Yes			
Environmental Disclosure	Product Environmental Profile			
Circularity Profile	End of Life Information			

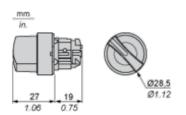
Contractual warranty

Warranty

18 months

Dimensions Drawings

Dimensions



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Mounting and Clearance

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

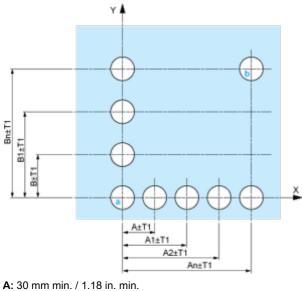
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board	Connection by Faston Connectors
(1) Diameter on finished panel or support	
(2) 40 mm min. / 1.57 in. min.	
(3) 30 mm min. / 1.18 in. min.	
(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0^{+0.4}$ / 0.88 in. $_0^{+0.0}$	¹⁶)
(5) 45 mm min. / 1.78 in. min.	
(6) 32 mm min. / 1.26 in. min.	

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Mounting and Clearance

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

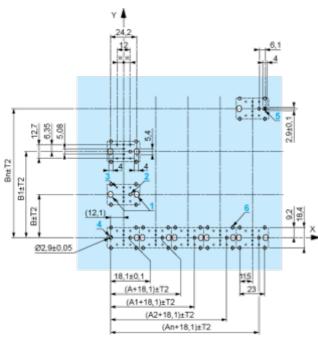
Panel Cut-outs (Viewed from Installer's Side)



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

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

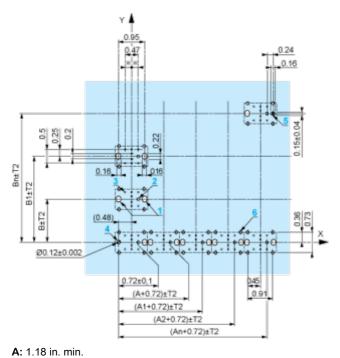
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



B: 1.57 in. min.

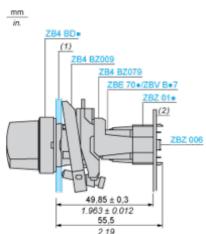
General Tolerances of the Panel and Printed Circuit Board

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:
 - every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - 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

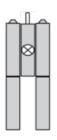
Mounting of Adapter (Socket) ZBZ 01•

- 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)
- 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•.

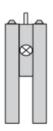
Technical Description

Electrical Composition Corresponding to Code M3



Technical Description

Electrical Composition Corresponding to Code M4



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





Technical Description

Legend

Single contact



Double contact



Light block



Possible location





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Technical Description

Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



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

Position 45°

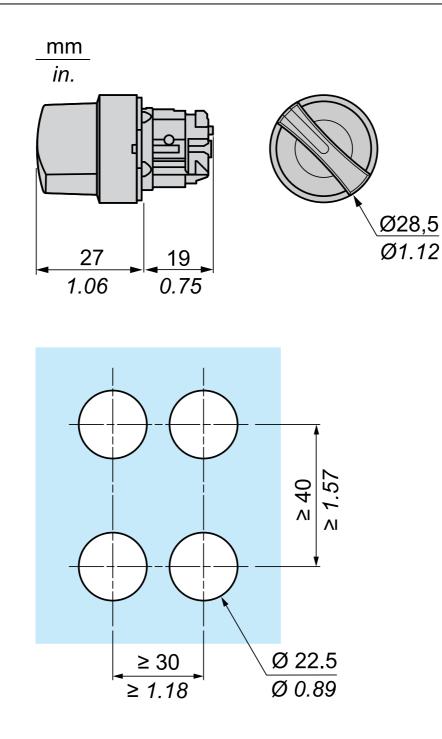


Push	Position	Тор		Π	
		Bottom			
	Location		Left		Right
	State		1	\otimes	1
Contacts	N/O		closed		closed
	N/C		open		open

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Technical Illustration

Dimensions



Recommended replacement(s)