ZB4BK1813

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





Main

Harmony XB4
Head for illuminated selector switch
Universal LED
ZB4
Chromium plated metal
Standard
22 mm
1
Round
Right to centre spring return
White standard handle
3 positions +/- 45°

Complementary

Device presentation	Basic element					
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					
Mechanical durability	500000 cycles					
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m					
Product weight	0.036 kg					
CAD overall depth	43 mm					
CAD overall height	29 mm					
CAD overall width	29 mm					

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	IK04 conforming to IEC 50102	

Standards	EN/IEC 60947-5-5
	EN/IEC 60947-5-4
	JIS C8201-5-1
	EN/IEC 60947-5-1
	CSA C22.2 No 14
	EN/IEC 60947-1
	UL 508
	JIS C8201-1
Product certifications	GL
	LROS (Lloyds register of shipping)
	UL listed
	BV
	DNV
	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

r doking office	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.59 cm
Package 1 Width	3.3 cm
Package 1 Length	5.59 cm
Package 1 Weight	0.04 kg
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	205 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	10.974 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)				
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				
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				

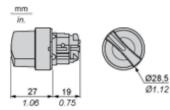
Contractual warranty

Warranty	18 months
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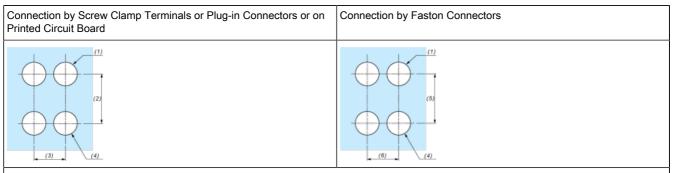
Product data sheet Dimensions Drawings

ZB4BK1813

Dimensions



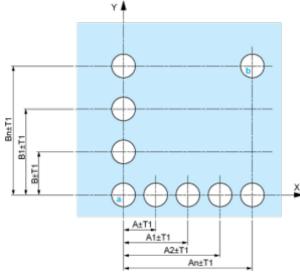
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)



- (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)

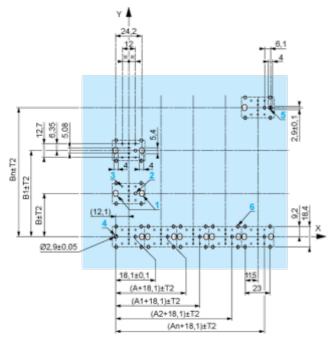


A: 30 mm min. / 1.18 in. min.

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

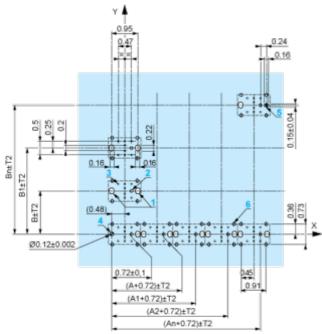
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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

Dimensions in in.



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

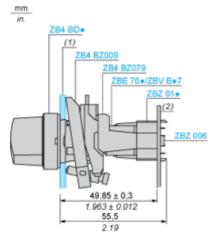
General Tolerances of the Panel and Printed Circuit Board

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

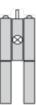
Mounting of Adapter (Socket) ZBZ 01•

- 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•
- 38 × 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•.

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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°



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

Position 0°



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

Position 45°



Push	Position	Тор		8	
Bottom					
Location		Left	Right		
State		0	1		
Contacts	N/O		open	closed	
N/C	-	closed	open		