Product data sheet Characteristics

ZB4BK1853

orange illuminated selector switch head Ø22 3-position spring return

Product availability: Stock - Normally stocked in distribution facility

Price* : 51.00 USD



Main

Man		<u>i</u>
Range of product	Harmony XB4	
Product or component type	Head for illuminated selector switch	
Product compatibility	Integral LED	‡ 'c
Device short name	ZB4	. <u>i.</u>
Bezel material	Chromium plated metal	<u> </u>
Mounting diameter	0.87 in (22 mm)	
Sale per indivisible quantity	1	
Shape of signaling unit head	Round	
Type of operator	Spring return right to centre	
Operator profile	Orange standard handle	
Operator position information	3 positions +/- 45°	9

Complementary

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CAD overall width	1.14 in (29 mm)	
CAD overall height	1.14 in (29 mm)	
CAD overall depth	1.69 in (43 mm)	
Product weight	0.08 lb(US) (0.036 kg)	
Resistance to high pressure washer	1015.26 psi (7000000 Pa) at 131 °F (55 °C),distance: 0.1 m	
Mechanical durability	500000 cycles	
Electrical composition code	M10 <= 2 contacts using single blocks in front mounting with integral LED M6 <= 2 contacts using single blocks in front mounting with integral LED and transformer M3 <= 4 contacts using single blocks in front mounting with integral LED M4 <= 4 contacts using single and double blocks in front mounting with integral LED	

Environment

Protective treatment	TH		

Ambient air temperature for storage	-40158 °F (-4070 °C)
Ambient air temperature for operation	-40158 °F (-4070 °C)
Overvoltage category	Class I conforming to IEC 60536
Electrical shock protection class	Class I conforming to IEC 60536
IP degree of protection	IP69 IP67 IP66 conforming to IEC 60529 IP69K
NEMA degree of protection	NEMA 13 NEMA 4X
IK degree of protection	IK06 conforming to IEC 50102
Standards	EN/IEC 60947-5-1 JIS C 4520 EN/IEC 60947-1 CSA C22.2 No 14 EN/IEC 60947-5-5 UL 508 EN/IEC 60947-5-4
Product certifications	LROS (Lloyds register of shipping) RINA CSA BV GL DNV UL listed
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC 60068-2-27

Ordering and shipping details

Category	22468 - PUSHBUTTONS,22MM(METAL) NEW
Discount Schedule	CS2
GTIN	00785901382294
Nbr. of units in pkg.	1
Package weight(Lbs)	8.999999999997E-2
Returnability	Υ
Country of origin	FR

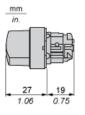
Contractual warranty

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Warranty period	18 months

Product data sheet Dimensions Drawings

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Dimensions

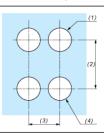


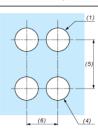


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Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed to Dimediac day of Faston Connectors

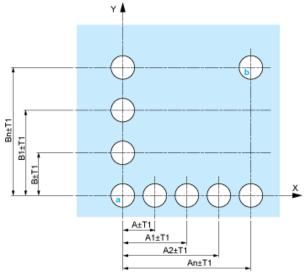




- Diameter on finished panel or support
- (2) (3) 40 mm min. / 1.57 in. min.
- 30 mm min. / 1.18 in. min.
- Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0$ $^{+0.4}$ / 0.88 in. $_0$ $^{+0.016}$) (4)
- 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

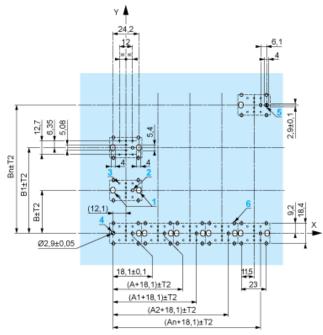
Panel Cut-outs (Viewed from Installer's Side)



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

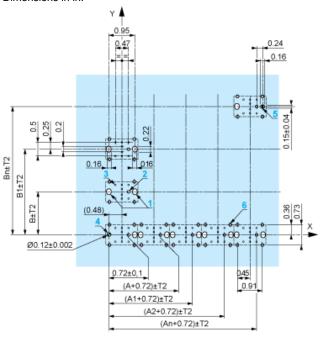
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

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



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Electrical Composition Corresponding to Code M4



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Electrical Composition Corresponding to Codes M6 and P2



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



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Single contact



Double contact

Light block



Possible location



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Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°

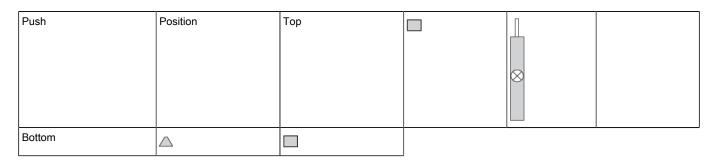
Push	Position	Тор		8	
Bottom		\triangle			
Location		Left	Right		
State		1	0		
Contacts	N/O		closed	open	
N/C	-	open	closed		-

Position 0°



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

Position 45°



Location		Left	Right	
State		0	1	
Contacts	N/O		open	closed
N/C		closed	open	