# ZB4BK1513

# white illuminated selector switch head Ø22 3-position spring return

Product availability: Stock - Normally stocked in distribution facility



#### Main Range

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	0.87 in (22 mm)
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Spring return to centre
Operator profile	White standard handle
Operator position information	3 positions +/- 45°

#### Complementary

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)
Mechanical durability	500000 cycles
Electrical composition code	M6 2 contacts using single blocks in front mounting with integral LED and transformer M10 2 contacts using single blocks in front mounting with integral LED M3 for 4 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

#### Environment

TH
-40158 °F (-4070 °C)
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Class I conforming to IEC 60536
IP69 IP67 IP66 conforming to IEC 60529 IP69K
NEMA 13 NEMA 4X
IK06 conforming to IEC 50102
JIS C 4520 EN/IEC 60947-5-1 EN/IEC 60947-1 UL 508 EN/IEC 60947-5-5 EN/IEC 60947-5-4 CSA C22.2 No 14

Product certifications	LROS (Lloyds register of shipping)				
	CSA				
	DNV				
	GL				
	BV				
	RINA				
	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	00785901382225
Nbr. of units in pkg.	1
Package weight(Lbs)	8.9999999999997E-2
Returnability	Υ
Country of origin	FR

### Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including:
Substance 1	Nickel compounds, which is known to the State of California to cause cancer, and
Substance 2	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
More information	For more information go to www.p65warnings.ca.gov

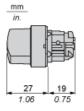
# Contractual warranty

Warranty period	18 months	
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# Product data sheet Dimensions Drawings

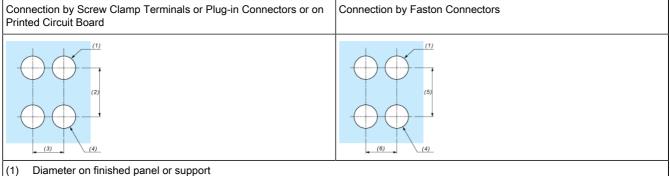
# ZB4BK1513

#### **Dimensions**





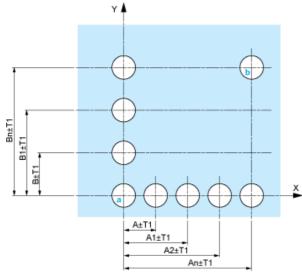
#### Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)



- 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm  $_0$  <sup>+0.4</sup> / 0.88 in.  $_0$  <sup>+0.016</sup>) (4)
- (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

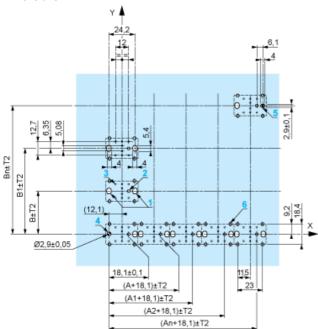
#### Panel Cut-outs (Viewed from Installer's Side)



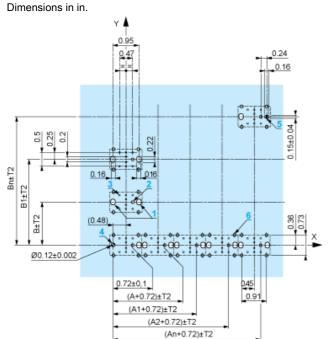
- 30 mm min. / 1.18 in. min.
- B: 40 mm min. / 1.57 in. min.

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

Dimensions in mm



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



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

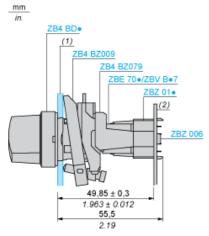
#### General Tolerances of the Panel and Printed Circuit Board

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.



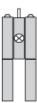
- (1) Panel
- (2) Printed circuit board

#### 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)
- 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•.

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





Possible location



# 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°



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

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