Specifications



### () Discontinued

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

ZB4BK17637

() Discontinued on: Dec 19, 2019

### Main

Range Of Product	Harmony XB4			
Product Or Component Type	Head for illuminated selector switch			
Product Compatibility	Integral LED			
Device Short Name	ZB4			
Bezel Material	Black metal			
Mounting Diameter	22 mm			
Sale Per Indivisible Quantity	1			
Shape Of Signaling Unit Head	Round			
Type Of Operator	Left to centre spring return			
Operator Profile	Blue 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	500000 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	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	IK04 conforming to IEC 50102			
Standards	EN/IEC 60947-1 EN/IEC 60947-5-1 CSA C22.2 No 14 EN/IEC 60947-5-4 JIS C8201-5-1 EN/IEC 60947-5-5 UL 508 JIS C8201-1			
Product Certifications	GL UL listed LROS (Lloyds register of shipping) DNV CSA 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**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

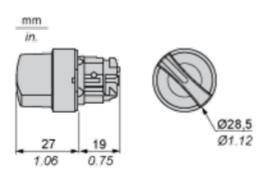
# **Contractual warranty**

Warranty

18 months

### **Dimensions Drawings**

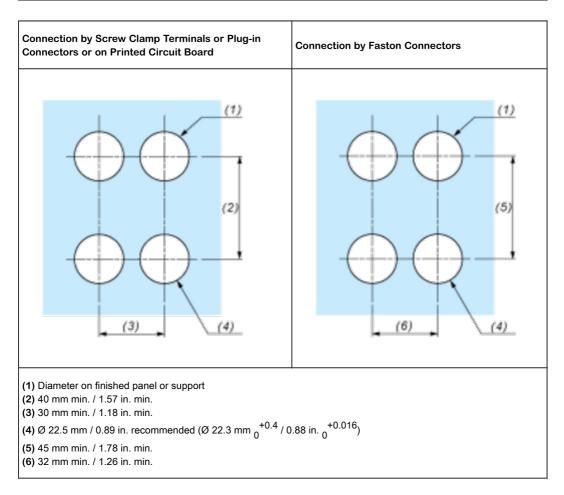
### Dimensions



# Product data sheet ZB4BK17637

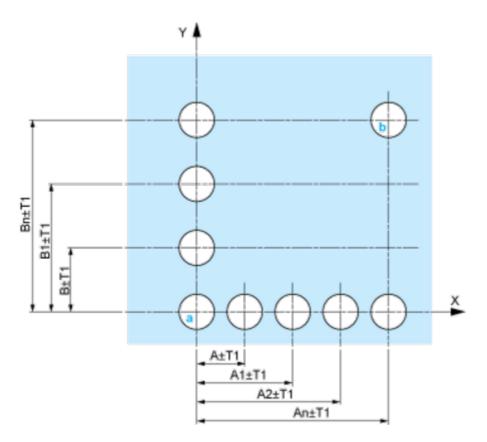
Mounting and Clearance

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



### Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

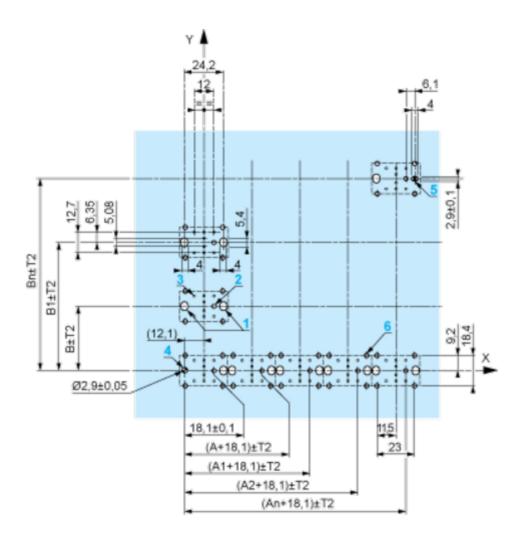
Panel Cut-outs (Viewed from Installer's Side)



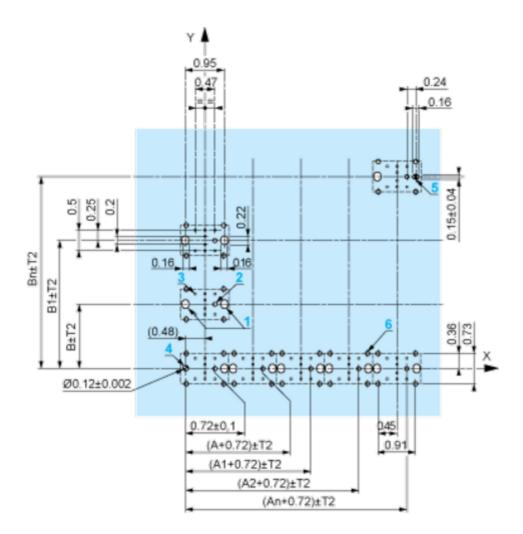
**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

### 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.

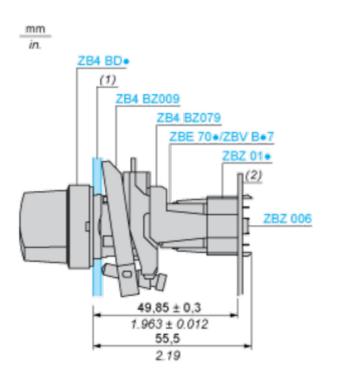
#### General Tolerances of the Panel and Printed Circuit Board

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:
  - $_{\circ}$  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

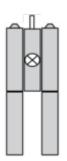
#### Mounting of Adapter (Socket) ZBZ 01•

- 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 ± 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•

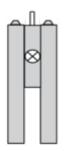
Dimensions An + 18.1 relate to the Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ 01.

**Technical Description** 

Electrical Composition Corresponding to Code M3



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



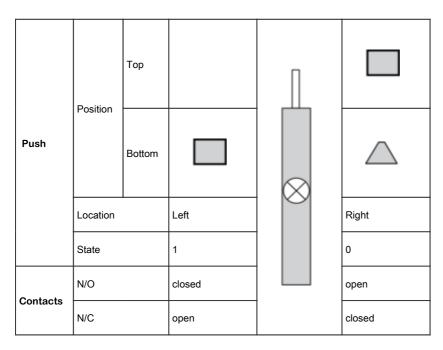
Possible location



### Sequence of Contacts Fitted to 3-position Selector Switch Body

### Position 315°





### Position 0°



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

### Position 45°



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