

## ZB4BD29

glava crne izborne preklopke Ø 22, 2 položaja  
nepomična



### Glavno

Range of product	Harmony XB4
Product or component type	Head for selector switch
Device short name	ZB4
Bezel material	Chromium plated metal
Mounting diameter	22 mm
Sale per indivisible quantity	1
Head type	Standard
Shape of signaling unit head	Round
Type of operator	Stay put
Operator profile	Black knurled knob
Operator position information	2 positions 90°

### Komplementarno

CAD overall width	29 mm
CAD overall height	29 mm
CAD overall depth	44 mm
Product weight	0.043 kg
Resistance to high pressure washer	7000000 Pa at 55 °C, distance: 0.1 m
Mechanical durability	1000000 cycles
Electrical composition code	C15for 1 contacts using single blocks in front mounting C15for 1 contacts using single blocks in front mounting C11for 3 contacts using single blocks in front mounting C7for 4 contacts using single blocks in front mounting C8for 4 contacts using single and double blocks in front mounting C4for 6 contacts using single and double blocks in front mounting C5for 5 contacts using single blocks in front mounting C6for 5 contacts using single and double blocks in front mounting C3for 6 contacts using single blocks in front mounting

### Okolina

protective treatment	TC
ambient air temperature for storage	-40...70 °C
ambient air temperature for operation	-40...70 °C
electrical shock protection class	Class I conforming to IEC 60536
IP degree of protection	IP69K IP69 conforming to IEC 60529
NEMA degree of protection	NEMA 13 NEMA 4X
IK degree of protection	IK06 conforming to IEC 50102
standards	EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 JIS C 4520 UL 508 CSA C22.2 No 14
product certifications	BV CSA DNV GL LR0S (Lloyds register of shipping) RINA

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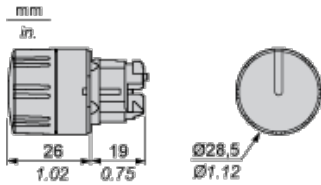
UL listed

vibration resistance	5 gn (f = 2...500 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

### Contractual warranty

Warranty period	18 months
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### Dimensions

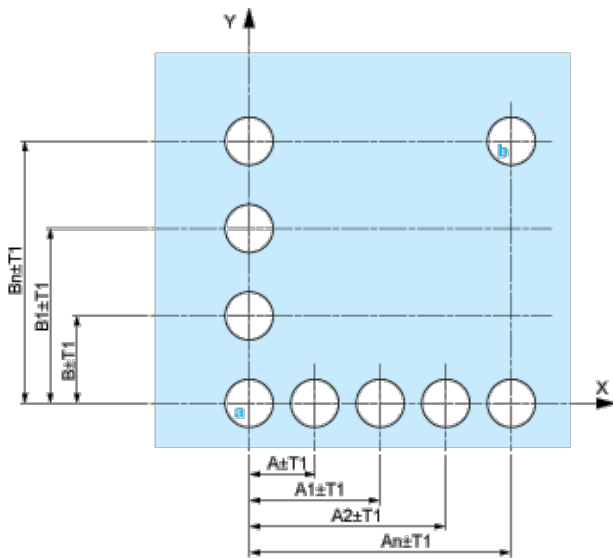


### Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board	Connection by Faston Connectors
<p>Diagram showing a 2x2 grid of circular cut-outs. Dimensions are labeled: (1) diameter of cut-out, (2) vertical spacing between rows, (3) horizontal spacing between columns, and (4) diameter of the hole.</p>	<p>Diagram showing a 2x2 grid of circular cut-outs. Dimensions are labeled: (1) diameter of cut-out, (5) vertical spacing between rows, (6) horizontal spacing between columns, and (4) diameter of the hole.</p>
<p>(1) Diameter on finished panel or support            (2) 40 mm min. / 1.57 in. min.            (3) 30 mm min. / 1.18 in. min.            (4) <math>\varnothing 22.5 \text{ mm} / 0.89 \text{ in.}</math> recommended (<math>\varnothing 22.3 \text{ mm}^{+0.4} / 0.88 \text{ in.}^{+0.016}</math>)            (5) 45 mm min. / 1.78 in. min.            (6) 32 mm min. / 1.26 in. min.</p>	

### 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)**

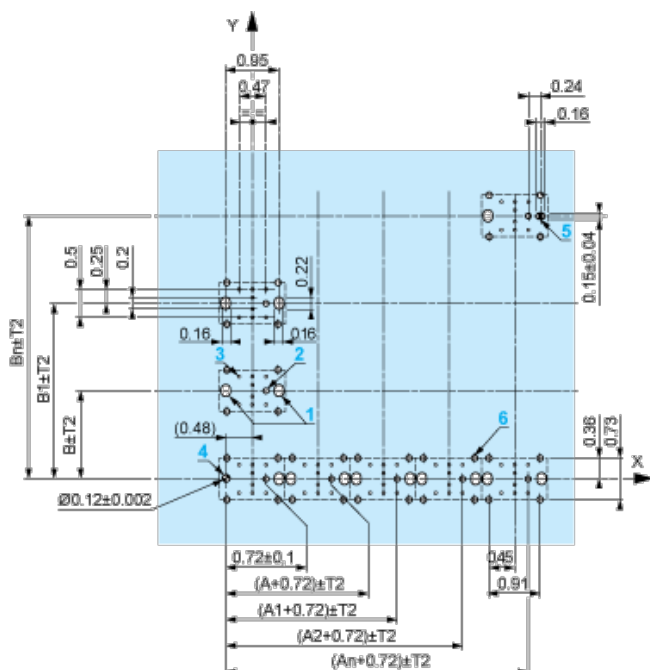
Dimensions in mm



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

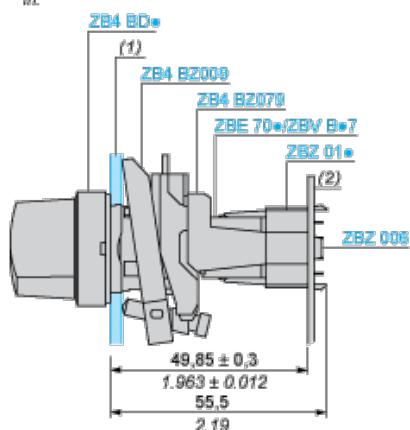
The cumulative tolerance must not exceed 0.3 mm / 0.012 in:  $T1 + T2 = 0.3 \text{ mm max.}$

### Installation Precautions

- ┆ Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- ┆ Cut-out diameter: 22.4 mm  $\pm$  0.1 / 0.88 in.  $\pm$  0.004
- ┆ Orientation of body/fixing collar ZB4 BZ009:  $\pm 2^\circ 30'$  (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**.

$\frac{\text{mm}}{\text{in.}}$



(1) Panel

(2) Printed circuit board

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

- ┆ 1 2 elongated holes for ZBZ 006 screw access
- ┆ 2 1 hole  $\varnothing$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ 01•
- ┆ 3 8 x  $\varnothing$  1.2 mm / 0.05 in. holes
- ┆ 4 1 hole  $\varnothing$  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  $\varnothing$  2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

### Electrical Composition Corresponding to Code C3



### Electrical Composition Corresponding to Code C4



### Electrical Composition Corresponding to Code C5



### Electrical Composition Corresponding to Code C6



### Electrical Composition Corresponding to Code C7



### Electrical Composition Corresponding to Code C8





### Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



### Electrical Composition Corresponding to Code C15

1 N/O



1 N/C



1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C



### Legend

Single contact



Double contact



Light block



Possible location



### Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



<b>Push</b>	Position	Top	<input type="text"/>		
		Bottom	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Location		Left	Centre	Right
	State		0	0	0
<b>Contacts</b>	N/O	open	open	open	
	N/C	closed	closed	closed	

**Position 45°**



<b>Push</b>	Position	Top	<input type="text"/>		
		Bottom	<input type="text"/>		
	Location		Left	Centre	Right
	State		1	1	1
<b>Contacts</b>	N/O	closed	closed	closed	
	N/C	open	open	open	