Specifications





selector switch head Ø22 3position spring return CES TEC10

ZB4BG05TEC10

- ! Discontinued on: Dec 2, 2020
- ! End-of-service on: Dec 31, 2020

(!) Discontinued

Main

Range Of Product	Harmony XB4		
Product Or Component Type	Head for key selector switch		
Device Short Name	ZB4		
Bezel Material	Chromium plated metal		
Mounting Diameter	0.87 in (22 mm)		
Head Type	Standard		
Sale Per Indivisible Quantity	1		
Shape Of Signaling Unit Head	Round		
Return	Right to centre		
Operator Profile	Black key switch		
Type Of Operator	Spring return		
Operator Position Information	3 positions +/- 45°		
Type Of Keylock	CES TEC10		
Key Withdrawal Position	Center		

Complementary

Cad Overall Width	1.14 in (29 mm)
Cad Overall Height	1.14 in (29 mm)
Cad Overall Depth	2.83 in (72 mm)
Net Weight	0.37 lb(US) (0.17 kg)
Resistance To High Pressure Washer	1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m
Mechanical Durability	1000000 cycles
Electrical Composition Code	C3 6 single front mounting C4 6 single and double front mounting C5 5 single front mounting C6 5 single and double front mounting C7 4 single front mounting C8 4 single and double front mounting C11 3 single front mounting
Device Presentation	Basic element

Environment

Protective Treatment T

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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Ambient Air Temperature For Storage	-40158 °F (-4070 °C)		
Ambient Air Temperature For Operation	-40158 °F (-4070 °C)		
Overvoltage Category	Class I IEC 60536		
Ip Degree Of Protection	IP66 IEC 60529 IP67 IP69 IP69K		
Nema Degree Of Protection	NEMA 13 NEMA 4X		
Ik Degree Of Protection	IK06 with keyhole cover ZBGP conforming to IEC 50102		
Standards	EN/IEC 60947-5-5 CSA C22.2 No 14 UL 508 EN/IEC 60947-1 EN/IEC 60947-5-4 GB 14048.5 EN/IEC 60947-5-1		
Product Certifications	GL BV LROS (Lloyds register of shipping) UL Listed DNV CSA		
Vibration Resistance	5 gn 2500 Hz)IEC 60068-2-6		
Shock Resistance	30 gn 18 ms) half sine wave acceleration IEC 60068-2-27 50 gn 11 ms) half sine wave acceleration IEC 60068-2-27		

Ordering and shipping details

Gtin 3389118046108

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

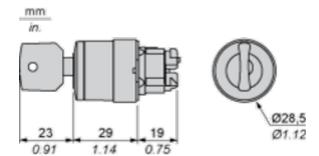
Certifications & Standards

Reach Regulation	REACh Declaration			
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
China Rohs Regulation	China RoHS declaration			
Environmental Disclosure	Product Environmental Profile			
Circularity Profile	End of Life Information			
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov			

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Dimensions Drawings

Dimensions



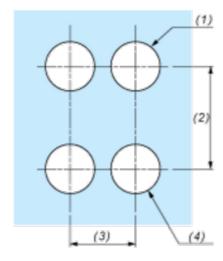
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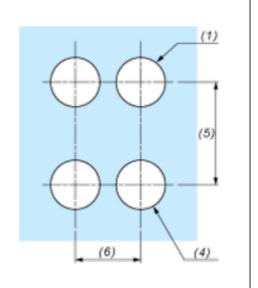
Mounting and Clearance

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

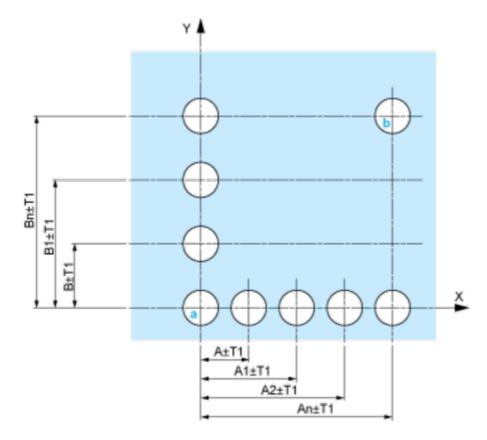




- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0^{+0.4}$ / 0.88 in. $_0^{+0.016}$)
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

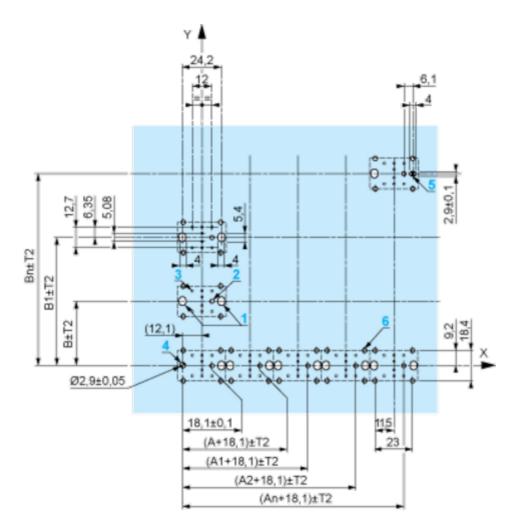


A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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

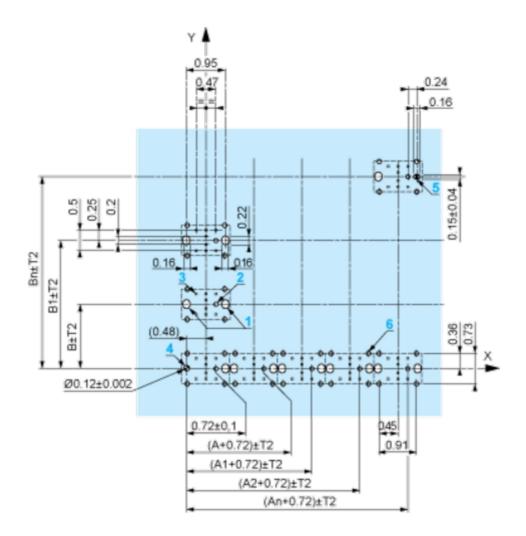
Dimensions in mm

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

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

General Tolerances of the Panel and Printed Circuit Board

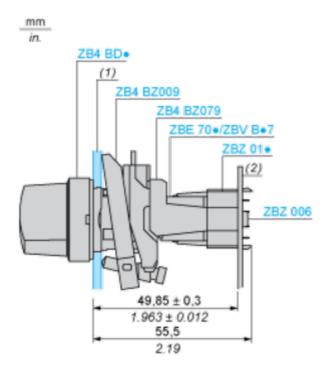
The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

Installation Precautions

- $_{\bullet}$ 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.

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

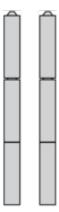
Mounting of Adapter (Socket) ZBZ 01•

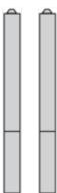
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

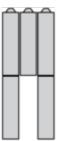
Dimensions An + 18.1 relate to the Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ 01•.

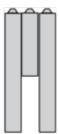
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Technical Description

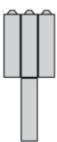


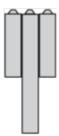






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Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

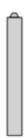


Legend

Single contact



Double contact



Light block



Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



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

Position 0°



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

Product data sheet ZB4BG05TEC10

Position 45°



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