Specifications





selector switch head Ø22 3position spring return Key 3131A

ZB4BG120

() Discontinued on: Jan 23, 2021

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	0.9 in (22 mm)		
Head type	Standard		
Sale per indivisible quantity	1		
Shape of signaling unit head	Round		
Return	Left to centre		
Operator profile	Black key switch		
Type of operator	Spring return		
Operator position information	3 positions +/- 45°		
type of keylock	Key 3131A		
Key withdrawal position	Right		

Complementary

CAD overall width	1.1 in (29 mm)			
CAD overall height	1.1 in (29 mm)			
CAD overall depth	2.8 in (72 mm)			
Net Weight	0.216 lb(US) (0.098 kg)			
Resistance to high pressure washer	1015.3 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

ΤН

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

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			
Standards	UL 508 EN/IEC 60947-5-5 CSA C22.2 No 14 EN/IEC 60947-5-1 GB 14048.5 EN/IEC 60947-1 EN/IEC 60947-5-4			
Product Certifications	UL Listed DNV GL BV LROS (Lloyds register of shipping) CSA			
Vibration resistance	5 gn 2500 Hz)IEC 60068-2-6			
aock resistance30 gn 18 ms) half sine wave acceleration IEC 60068-2-2750 gn 11 ms) half sine wave acceleration IEC 60068-2-27				

Ordering and shipping details

Category	22468-PUSHBUTTONS,22MM(METAL) NEW		
Discount Schedule	CS2		
GTIN	03389110121179		
Returnability	No		
Country of origin	FR		

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Mercury Free

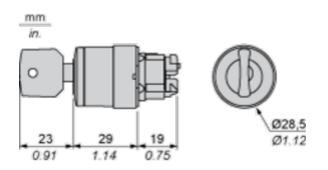
Rohs Exemption Information

Certifications & Standards

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		

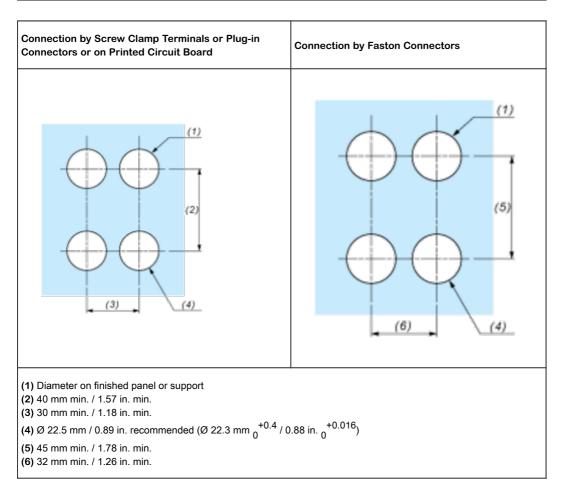
Dimensions Drawings

Dimensions



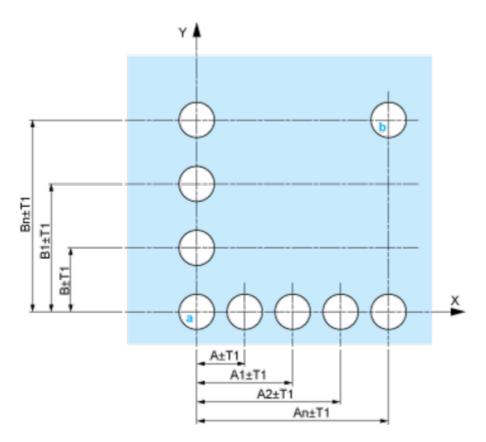
Mounting and Clearance

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



Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

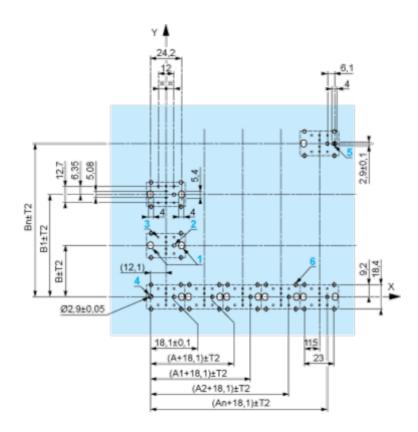
Panel Cut-outs (Viewed from Installer's Side)



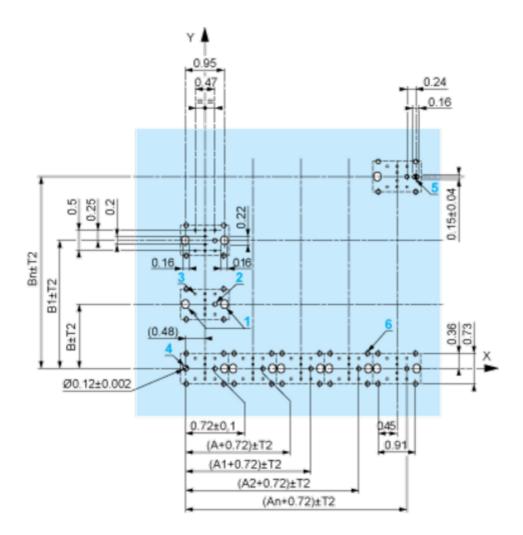
A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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.

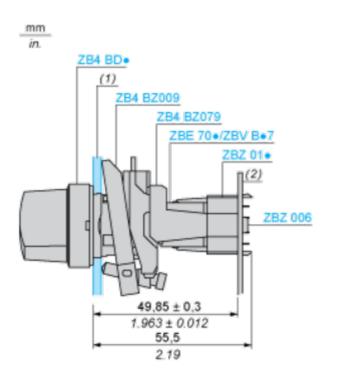
General Tolerances of the Panel and Printed Circuit Board

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

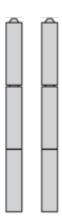
(2) Printed circuit board

Mounting of Adapter (Socket) ZBZ 01•

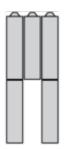
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the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

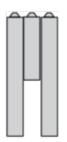
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ 01•.

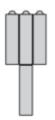
Technical Description

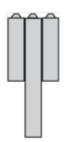












Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Legend

Single contact



Double contact



Light block



Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



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

Position 0°



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

Position 45°



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