



Harmony, 22mm Push Button, keyed selector switch operating head, 2 position, maintained, unmarked

ZB4BG4

Product availability: Stock - Normally stocked in distribution facility

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		
Operator profile	Black key switch		
Operator position information	2 positions 90°		
Type of keylock	Ronis 455		
Key withdrawal position	In any position		

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	0.22 lb(US) (0.098 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 C15 1 single front mounting			
Device presentation	Basic element			

Web: https://www.bolenscontrol.com/ - Phone: (800) 658-5241 - Email: sales@bolenscontrol.com

Environment	

Protective treatment TH 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 IP69 IP69 IP69 IP69 IP69 IP69 IP69 IP6					
Storage	Protective treatment	тн			
Operation 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 IEC 50102 Standards EN/IEC 60947-1 GB 14048-5 EN/IEC 60947-5-1 EN/IEC 60947-5-4 UL 508 EN/IEC 60947-5-5 CSA C22.2 No 14 Product certifications GL UL Listed LROS (Lloyds register of shipping) CSA DNV BV Vibration resistance 5 gn 2500 Hz)IEC 60068-2-6 Shock resistance 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27		-40158 °F (-4070 °C)			
IP66 IEC 60529 IP67 IP69 IP69K NEMA degree of protection NEMA 13 NEMA 4X K degree of protection IK06 IEC 50102 Standards EN/IEC 60947-1 GB 14048.5 EN/IEC 60947-5-1 EN/IEC 60947-5-4 UL 508 EN/IEC 60947-5-5 GSA C22.2 No 14 Product certifications GL UL Listed LROS (Lloyds register of shipping) CSA DNV BV Vibration resistance 5 gn 2500 Hz) IEC 60068-2-6 Shock resistance 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27		-40158 °F (-4070 °C)			
IP67	Overvoltage category	Class I IEC 60536			
NEMA 4X	IP degree of protection	IP67 IP69			
Standards	NEMA degree of protection				
GB 14048.5 EN/IEC 60947-5-1 EN/IEC 60947-5-4 UL 508 EN/IEC 60947-5-5 CSA C22.2 No 14 Product certifications GL UL Listed LROS (Lloyds register of shipping) CSA DNV BV Vibration resistance 5 gn 2500 Hz)IEC 60068-2-6 Shock resistance 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27	IK degree of protection	IK06 IEC 50102			
UL Listed LROS (Lloyds register of shipping) CSA DNV BV Vibration resistance 5 gn 2500 Hz)IEC 60068-2-6 Shock resistance 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27	Standards	GB 14048.5 EN/IEC 60947-5-1 EN/IEC 60947-5-4 UL 508 EN/IEC 60947-5-5			
Shock resistance 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27	Product certifications	UL Listed LROS (Lloyds register of shipping) CSA DNV			
	Vibration resistance	5 gn 2500 Hz)IEC 60068-2-6			
50 gn 11 ms) half sine wave acceleration IEC 60068-2-27	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

Category	22468-PUSHBUTTONS,22MM(METAL) NEW			
Discount Schedule	CS2			
GTIN	3389110889222			
Nbr. of units in pkg.	1			
Package weight(Lbs)	3.60 oz (102.0 g)			
Returnability	Yes			
Country of origin	FR			

Packing Units

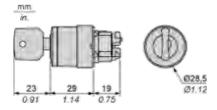
Unit Type of Package 1	PCE			
Package 1 Height	1.42 in (3.6 cm)			
Package 1 width	2.20 in (5.6 cm)			
Package 1 Length	3.58 in (9.1 cm)			
Unit Type of Package 2	S03			
Number of Units in Package 2	100			
Package 2 Weight	23.60 lb(US) (10.704 kg)			
Package 2 Height	11.81 in (30 cm)			
Package 2 width	11.81 in (30 cm)			
Package 2 Length	15.75 in (40 cm)			
Unit Type of Package 3	BB1			

Number of Units in Package 3	5					
Package 3 Weight	17.99 oz (510.0 g)					
Package 3 Height	3.46 in (8.8 cm)					
Package 3 width	1.30 in (3.3 cm)					
Package 3 Length	10.24 in (26 cm)					
Offer Sustainability						
Sustainable offer status	Green Premium product					
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 moinformation go to P65Warnings website					
REACh Regulation	REACh Declaration					
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration					
Mercury free	Yes					
RoHS exemption information	Yes					
China RoHS Regulation	China RoHS declaration					
Environmental Disclosure	Product Environmental Profile					
Circularity Profile	End of Life Information					
Contractual warranty						
Warranty	18 months					

ZB4BG4

Dimensions Drawings

Dimensions



Apr 22, 2022

ZB4BG4

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

Connection by Faston Connectors

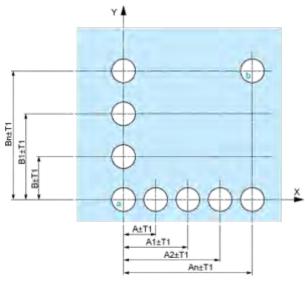
- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- **(4)** Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0^{+0.4}$ / 0.88 in. $_0^{+0.016}$)
- **(5)** 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

5

Mounting and Clearance

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

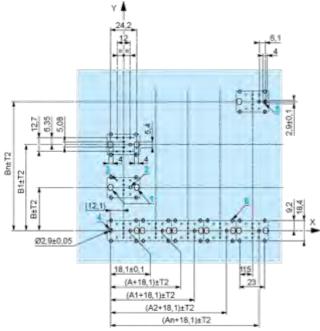


A: 30 mm min. / 1.18 in. min.

B: 40 mm min. / 1.57 in. min.

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

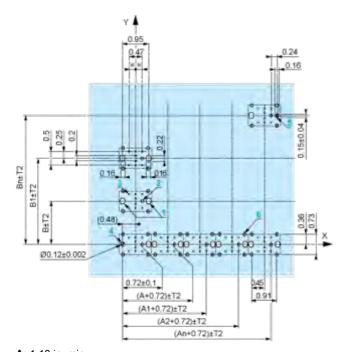
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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

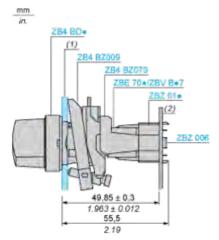
General Tolerances of the Panel and Printed Circuit Board

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:
 - 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•

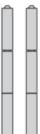
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the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

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•.

ZB4BG4

Technical Description

Electrical Composition Corresponding to Code C3



Web: https://www.bolenscontrol.com/ - Phone: (800) 658-5241 - Email: sales@bolenscontrol.com

Product data sheet ZB4BG4

Technical Description



ZB4BG4

Technical Description

Electrical Composition Corresponding to Code C5



Life Is On Schneider

Product data sheet ZB4BG4

Technical Description



ZB4BG4

Technical Description



Product data sheet ZB4BG4

Technical Description



ZB4BG4

Technical Description

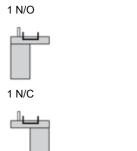
Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Life Is On Schneider

Technical Description

Electrical Composition Corresponding to Code C15



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



ZB4BG4

Technical Description

Legend	١
Logona	

Single contact



Double contact



Light block



Possible location



Life Is On Schneider

ZB4BG4

Technical Description

Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



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

Position 45°



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