Specifications



Head for key selector switch, Harmony XB4, metal, black, 22mm, key 455, 3 positions, spring return to center

ZB4BG7

Product availability : Stock - Normally stocked in distribution facility

Price* : 116.00 USD

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	To centre			
Operator profile	Black key switch			
Operator position information	3 positions +/- 45°			
Type of Keylock	Key 455			
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	0.22 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

Device presentation

Basic element

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Environment

Protective treatment	тн			
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 EN/IEC 60947-1 UL 508 CSA C22.2 No 14 EN/IEC 60947-5-4 EN/IEC 60947-5-1 GB 14048.5			
Product Certifications	GL BV CSA UL Listed LROS (Lloyds register of shipping) DNV			
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

Category	22468-PUSHBUTTONS,22MM(METAL) NEW				
Discount Schedule	CS2				
GTIN	3389110889284				
Returnability	Yes				
Country of origin	FR				

Packing Units

5	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.42 in (3.600 cm)
Package 1 Width	2.17 in (5.500 cm)
Package 1 Length	3.58 in (9.100 cm)
Package 1 Weight	3.63 oz (103.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	100
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	23.87 lb(US) (10.826 kg)
Unit Type of Package 3	P06

Life Is On Schneider

Number of Units in Package 3	800
Package 3 Height	30.31 in (77.000 cm)
Package 3 Width	31.50 in (80.000 cm)
Package 3 Length	23.62 in (60.000 cm)
Package 3 Weight	214.74 lb(US) (97.404 kg)

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 more information go to www.P65Warnings.ca.gov				
REACh Regulation	REACh Declaration				
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration				
Mercury free	Yes				
China RoHS Regulation	China RoHS declaration				
RoHS exemption information	Yes				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	End of Life Information				

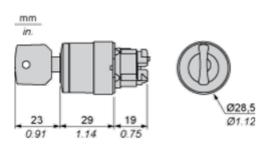
Contractual warranty

Warranty

18 months

Dimensions Drawings

Dimensions



ZB4BG7

Mounting and Clearance

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

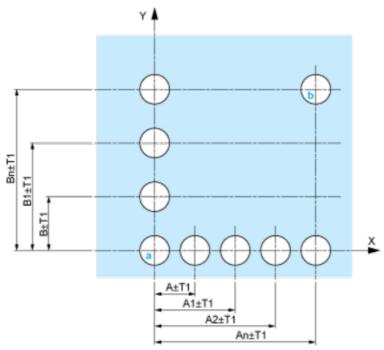
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board	Connection by Faston Connectors				
(1) Diameter on finished panel or support					
(2) 40 mm min. / 1.57 in. min.					
(3) 30 mm min. / 1.18 in. min.					
(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0^{+0.4}$ / 0.88 in. $_0^{+0.016}$)					
(5) 45 mm min. / 1.78 in. min.					
(6) 32 mm min. / 1.26 in. min.					

ZB4BG7

Mounting and Clearance

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

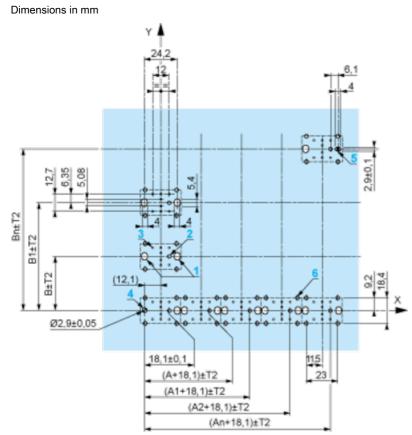
Panel Cut-outs (Viewed from Installer's Side)



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

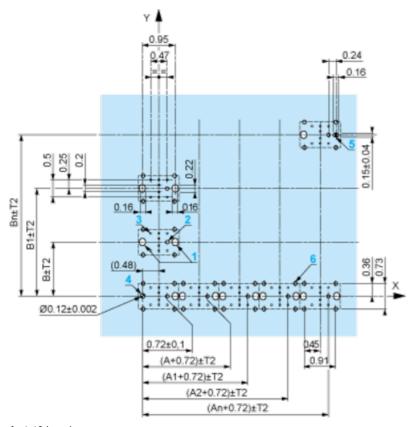
B: 40 mm min. / 1.57 in. min.

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



A: 30 mm min. **B:** 40 mm min.

Dimensions in in.





B: 1.57 in. min.

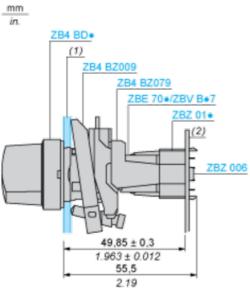
General Tolerances of the Panel and Printed Circuit Board

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).
 - 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

Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 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•

⁽²⁾ Printed circuit board

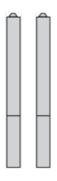
Dimensions An + 18.1 relate to the Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ 01+.

Technical Description

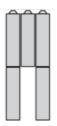




Technical Description



Technical Description

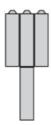




Technical Description

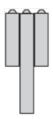


Technical Description





Technical Description



ZB4BG7

Technical Description

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





Technical Description

Legend

Single contact



Double contact



Light block



Possible location





Technical Description

Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



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

Position 0°



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

Position 45°



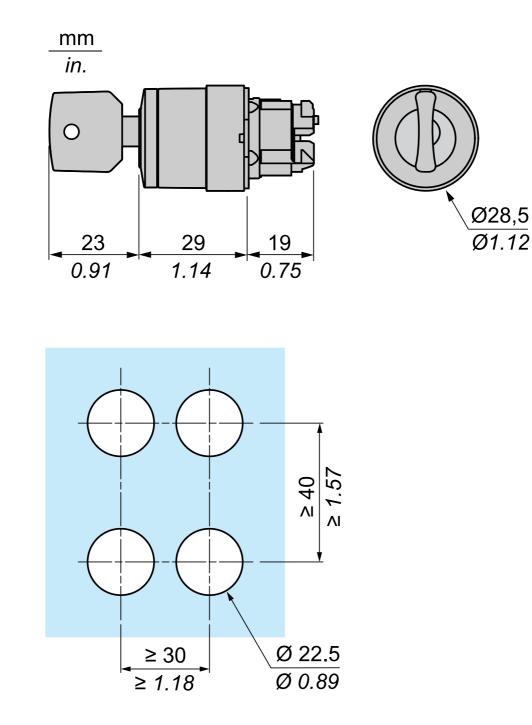
Push	Position	Тор				
		Bottom	\bigtriangleup			
	Location		Left	Centre	Right	
	State		0	1	1	
Contacts	N/O		open	closed	closed	
	N/C		closed	open	open	



ZB4BG7

Technical Illustration

Dimensions



Recommended replacement(s)