Specifications



KEY SWITCH

Local distributor code: 237091536 ZB4BG3

EAN Code : 3389110889277

Main

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	22 mm
Head type	Standard
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Operator profile	Black key switch
Operator position information	3 positions +/- 45°
Type of keylock	Key 455
Key withdrawal position	Center

Complementary

Complementary					
CAD overall width	29 mm				
CAD overall height	29 mm				
CAD overall depth	72 mm				
Net weight	0.098 kg				
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m				
Mechanical durability	1000000 cycles				
Electrical composition code	C3 for <6 contacts using single blocks in front mounting C4 for <6 contacts using single and double blocks in front mounting C5 for <5 contacts using single blocks in front mounting C6 for <5 contacts using single and double blocks in front mounting C7 for <4 contacts using single blocks in front mounting C8 for <4 contacts using single and double blocks in front mounting C11 for <3 contacts using single blocks in front mounting				
Device presentation	Basic element				
Environment					
Protective treatment	тн				
Ambient air temperature for storage	-4070 °C				

Life Is On Schneider

Ambient air temperature for operation	-4070 °C			
Overvoltage category	Class I conforming to IEC 60536			
IP degree of protection	IP66 conforming to 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 GB 14048.5 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-1			
Product certifications	LROS (Lloyds register of shipping) GL UL listed BV DNV CSA			
Vibration resistance	5 gn (f= 2500 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				

Packing Units

-	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.000 cm
Package 1 Width	5.400 cm
Package 1 Length	9.200 cm
Package 1 Weight	103.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Height	8.600 cm
Package 2 Width	26.000 cm
Package 2 Length	3.300 cm
Package 2 Weight	515.000 g
Unit Type of Package 3	S03
Number of Units in Package 3	100
Package 3 Height	30.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	10.892 kg

Offer Sustainability

Sustainable offer status	Green Premium product	
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		

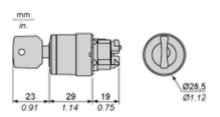
Contractual warranty

Warranty

18 months

Dimensions Drawings

Dimensions



ZB4BG3

Mounting and Clearance

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

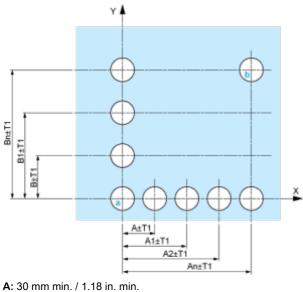
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board	Connection by Faston Connectors
(1) Diameter on finished panel or support	
(2) 40 mm min. / 1.57 in. min.	
(3) 30 mm min. / 1.18 in. min.	
(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0^{+0.4}$ / 0.88 in. $_0^{+0.0}$	¹⁶)
(5) 45 mm min. / 1.78 in. min.	
(6) 32 mm min. / 1.26 in. min.	

ZB4BG3

Mounting and Clearance

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

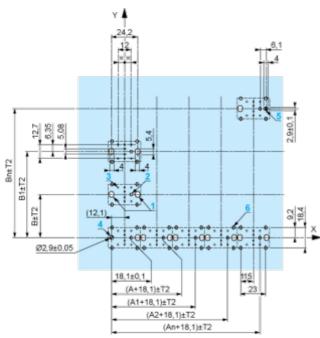
Panel Cut-outs (Viewed from Installer's Side)



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

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

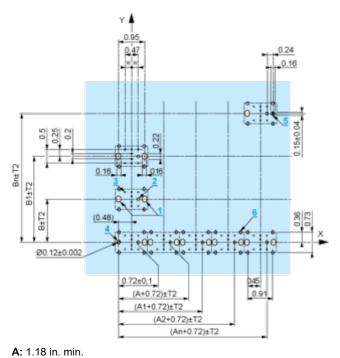
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



B: 1.57 in. min.

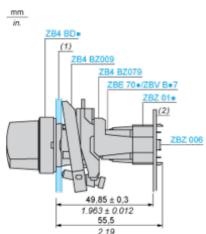
General Tolerances of the Panel and Printed Circuit Board

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:
 - 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

(2) Printed circuit board

Mounting of Adapter (Socket) ZBZ 01•

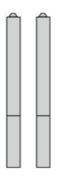
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the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

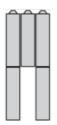
Technical Description



Technical Description



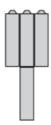
Technical Description



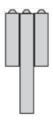
Technical Description



Technical Description



Technical Description





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			closed	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°

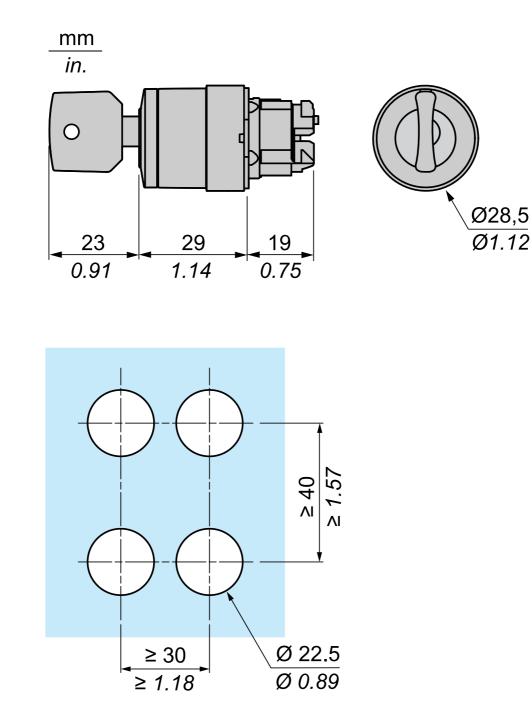


F	Push	Position	Тор				
			Bottom	\bigtriangleup			
		Location	·	Left	Centre	Right	
		State		0	1	1	
С	ontacts	N/O		open	closed	closed	
		N/C		closed	open	open	

ZB4BG3

Technical Illustration

Dimensions



Recommended replacement(s)