Specifications





Harmony XB4. Key switch selector head. metal. black. Ø22. key n°455. 3 positions. stay put

ZB4BG9

### Price: 950.24 ZAR

### Main

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     Derator Profile   Black key switch     Type Of Operator   Stay put     Operator Position Information   3 positions +/- 45°     Type Of Keylock   Key 455			
Device Short Name   ZB4     Bezel Material   Chromium plated metal     Mounting Diameter   22 mm     Head Type   Standard     Bale Per Indivisible Quantity   1     Shape Of Signaling Unit Head   Round     Deperator Profile   Black key switch     Type Of Operator   Stay put     Operator Position Information   3 positions +/- 45°     Type Of Keylock   Key 455	Range Of Product	Harmony XB4	
Bezel Material   Chromium plated metal     Mounting Diameter   22 mm     Head Type   Standard     Sale Per Indivisible Quantity   1     Shape Of Signaling Unit Head   Round     Deperator Profile   Black key switch     Type Of Operator   Stay put     Operator Position Information   3 positions +/- 45°     Type Of Keylock   Key 455	Product Or Component Type	Head for key selector switch	
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Head Type   Standard     Sale Per Indivisible Quantity   1     Shape Of Signaling Unit Head   Round     Operator Profile   Black key switch     Type Of Operator   Stay put     Operator Position Information   3 positions +/- 45°     Type Of Keylock   Key 455	Bezel Material	Chromium plated metal	
Sale Per Indivisible Quantity 1   Shape Of Signaling Unit Head Round   Operator Profile Black key switch   Type Of Operator Stay put   Operator Position Information 3 positions +/- 45°   Type Of Keylock Key 455	Mounting Diameter	22 mm	
Shape Of Signaling Unit Head Round   Operator Profile Black key switch   Type Of Operator Stay put   Operator Position Information 3 positions +/- 45°   Type Of Keylock Key 455	Head Type	Standard	
Operator Profile Black key switch   Type Of Operator Stay put   Operator Position Information 3 positions +/- 45°   Type Of Keylock Key 455	Sale Per Indivisible Quantity	1	
Type Of Operator Stay put   Operator Position Information 3 positions +/- 45°   Type Of Keylock Key 455	Shape Of Signaling Unit Head	Round	
Operator Position Information 3 positions +/- 45°   Type Of Keylock Key 455	Operator Profile	Black key switch	
Type Of Keylock     Key 455	Type Of Operator	Stay put	
	Operator Position Information	3 positions +/- 45°	
Key Withdrawal Position Left	Type Of Keylock	Key 455	
	Key Withdrawal Position	Left	

## 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	Racio alement		

Device Presentation

Basic element

## Environment

Protective Treatment	тн
Ambient Air Temperature For Storage	-4070 °C
Ambient Air Temperature For Operation	-4070 °C

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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	CSA C22.2 No 14 EN/IEC 60947-5-1 GB 14048.5 EN/IEC 60947-1 UL 508 EN/IEC 60947-5-5 EN/IEC 60947-5-4				
Product Certifications	CSA UL listed DNV GL LROS (Lloyds register of shipping) BV				
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	3.4 cm
Package 1 Width	5.5 cm
Package 1 Length	9 cm
Package 1 Weight	102 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	5
Package 2 Height	8.6 cm
Package 2 Width	3.3 cm
Package 2 Length	26 cm
Package 2 Weight	519 g
Unit Type Of Package 3	S03
Number Of Units In Package 3	100
Package 3 Height	30 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	10.8 kg

## **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> products.

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

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance

Mercury Free

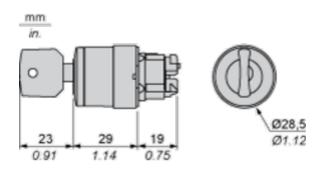
Rohs Exemption Information Yes

### **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		

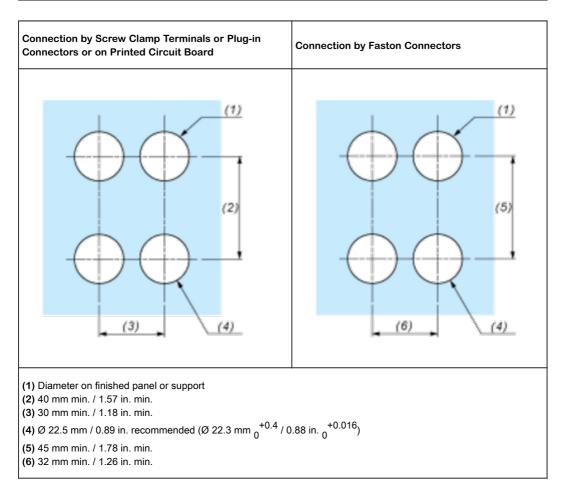
### **Dimensions Drawings**

### Dimensions



Mounting and Clearance

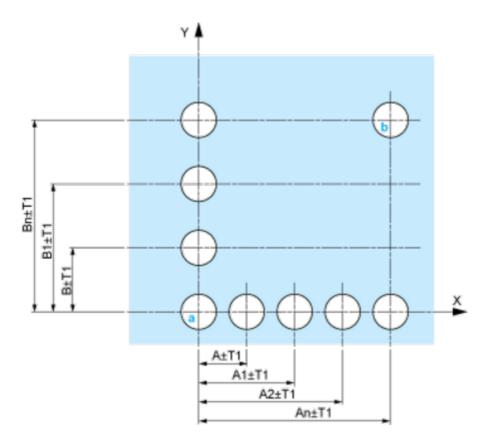
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)



### ZB4BG9

#### Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

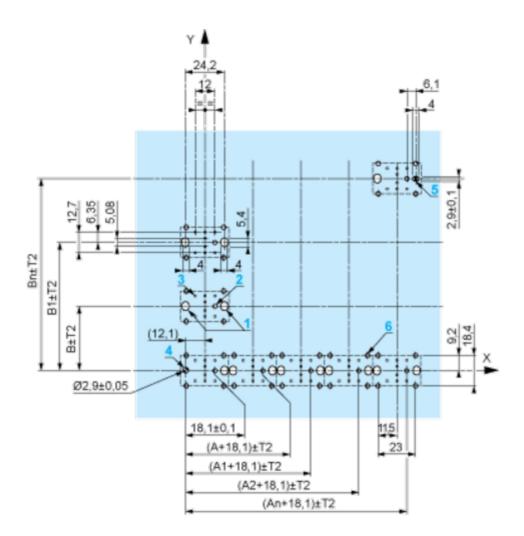
#### Panel Cut-outs (Viewed from Installer's Side)



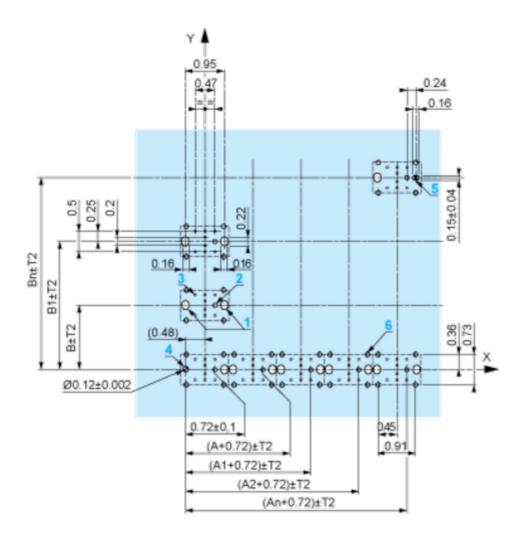
**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

### 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.

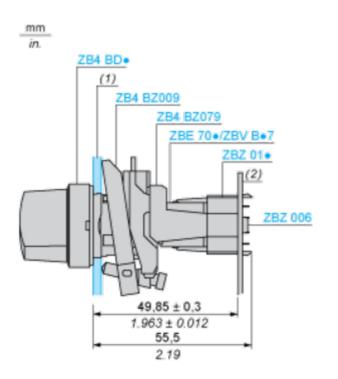
#### General Tolerances of the Panel and Printed Circuit Board

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

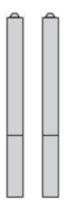
#### Mounting of Adapter (Socket) ZBZ 01•

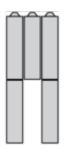
- 1 2 elongated holes for ZBZ 006 screw access
- $_{\bullet}$  2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01-
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole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

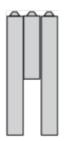
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ 01•.

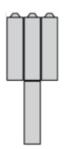
**Technical Description** 

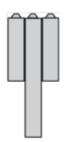












Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



#### Legend

Single contact



Double contact



Light block



Possible location



### Sequence of Contacts Fitted to 3-position Selector Switch Body

#### Position 315°



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

### Position 0°



	Position	Тор			
Push		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°



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