

(!) Discontinued

## Head for key selector switch, Harmony XB4, Ø22 mm 3 position stay put 458 A

ZB4BG510

- ! Discontinued on: Dec 2, 2020
- ! End-of-service on: Dec 31, 2020

# 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		
Operator profile	Black key switch		
Type of operator	Stay put		
Operator position information	3 positions +/- 45°		
type of keylock	Key 458A		
Key withdrawal position	Left and 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) 131.00000000000 °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	TH
Ambient Air Temperature for Storage	-40.0000000000158.0000000000 °F (-4070 °C)

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 Operation	-40.0000000000158.00000000000 °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	EN/IEC 60947-1 GB 14048.5 EN/IEC 60947-5-5 EN/IEC 60947-5-4 EN/IEC 60947-5-1 CSA C22.2 No 14 UL 508			
Product Certifications	BV UL Listed CSA DNV GL LROS (Lloyds register of shipping)			
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	00785901838586				
Returnability	No				
Country of origin	FR				

## **Contractual warranty**

Warranty 18 months

## Sustainability

**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 >

## Well-being performance

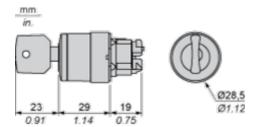
Mercury Free		
Rohs Exemption Information	Yes	

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
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

## **ZB4BG510**

## **Dimensions Drawings**

### **Dimensions**



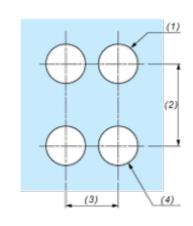
### **ZB4BG510**

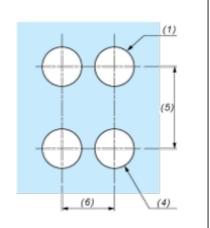
#### Mounting and Clearance

# 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** 

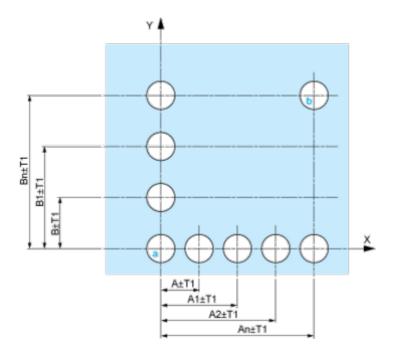




- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm  $_0^{+0.4}$  / 0.88 in.  $_0^{+0.016}$ )
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

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

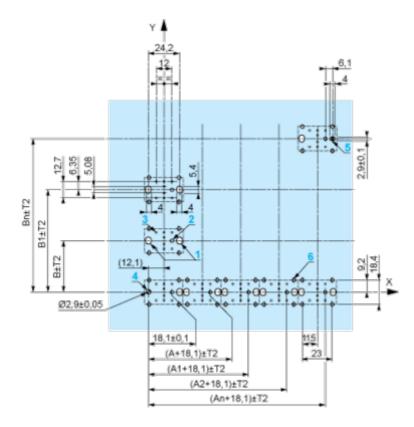
#### Panel Cut-outs (Viewed from Installer's Side)



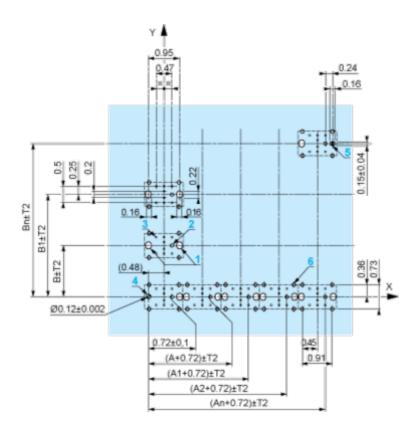
**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

#### 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

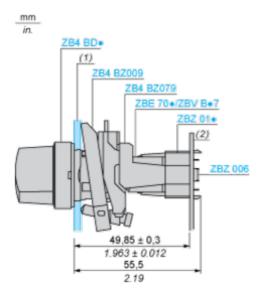
The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

#### **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**.

### **ZB4BG510**



- (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
- $_{ullet}$  4 1 hole Ø 2.9 mm  $\pm$  0.05 / 0.11 in.  $\pm$  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  $\emptyset$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ 01•.

## **ZB4BG510**

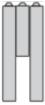
**Technical Description** 





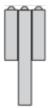
## **ZB4BG510**





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



### Legend

Single contact



Double contact



Light block



Possible location



## ZB4BG510

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

#### Position 315°



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

### Position 0°



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

#### Position 45°



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