

# white flush/red projecting/black flush triple-headed pushbutton Ø22 1NO +1NC+1NO

Local distributor code: 393613227 XB4BA711237

#### Main

Range of product	Harmony XB4				
Product or component type	Triple-headed push-button				
Device short name	XB4				
Bezel material	Chromium plated metal				
Fixing collar material	Zamak				
Head type	Standard				
Mounting diameter	22 mm				
Shape of signaling unit head	Rectangular				
Type of operator	spring return				
Operator profile	2 flush - 1 central projecting STOP push-buttons				
Operators description	White "right arrow" - black "left arrow" - red "STOP"				
Contacts type and composition	1 NO + 1 NC				
Contact operation	Slow-break				
Connections - terminals	Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN/IEC 60947-1 Screw clamp terminals, >= 1 x 0.22 mm² without cable end conforming to EN/IEC 60947-1 Spring terminals, <= 2 x 1.5 mm² with cable end conforming to EN/IEC 60947-1 Spring terminals, >= 1 x 0.22 mm² without cable end conforming to EN/IEC 60947-1				

Complementary			
Net weight	0.128 kg		
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m		
Colour of marking	White marking when green, red or black caps Black marking when white caps		
Operator profile	Red projecting, STOP (white) White flush, right arrow (black) Black flush, left arrow (white)		
Contacts usage	Standard contacts		
Positive opening	With conforming to EN/IEC 60947-5-1 appendix K		
Operating travel	1.5 mm (NC changing electrical state) 2.6 mm (NO changing electrical state) 4.3 mm (total travel)		
Operating force	3.5 N NC changing electrical state 3.8 N NO changing electrical state		
Mechanical durability	1000000 cycles		

Tightening torque	0.81.2 N.m conforming to EN 60947-1				
Shape of screw head	Cross compatible with JIS No 1 screwdriver Cross compatible with Philips no 1 screwdriver Cross compatible with pozidriv No 1 screwdriver Slotted compatible with flat Ø 4 mm screwdriver Slotted compatible with flat Ø 5.5 mm screwdriver				
Contacts material	Silver alloy (Ag/Ni)				
Short-circuit protection	10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1				
[Ith] conventional free air thermal current	10 A conforming to EN/IEC 60947-5-1				
[Ui] rated insulation voltage	600 V (pollution degree 3) conforming to EN 60947-1				
[Uimp] rated impulse withstand voltage	6 kV conforming to EN 60947-1				
[le] rated operational current	3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1 0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.27 A at 250 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 1.2 A at 600 V, AC-15, A600 conforming to EN/IEC 60947-5-1				
Electrical durability	1000000 cycles, AC-15, 2 A at 230 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to EN/ IEC 60947-5-1 appendix C 1000000 cycles, AC-15, 3 A at 120 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to EN/ IEC 60947-5-1 appendix C 1000000 cycles, AC-15, 4 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles, DC-13, 0.2 A at 110 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to EN/ IEC 60947-5-1 appendix C 1000000 cycles, DC-13, 0.5 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to EN/ IEC 60947-5-1 appendix C				
Electrical reliability	$\Lambda$ < 10exp(-6) at 5 V and 1 mA in clean environment conforming to EN/IEC 60947-5-4 $\Lambda$ < 10exp(-8) at 17 V and 5 mA in clean environment conforming to EN/IEC 60947-5-4				
	7 - Toexp(-0) at 17 v and 3 m/s in clear environment combining to Elvie 0 00347-3-4				
Device presentation	Complete product				
Device presentation  Environment  Protective treatment					
Environment Protective treatment	Complete product				
Environment	Complete product  TH				
Environment Protective treatment Ambient air temperature for	Complete product  TH				
Environment Protective treatment Ambient air temperature for storage Ambient air temperature for	Complete product  TH  -4070 °C				
Environment  Protective treatment  Ambient air temperature for storage  Ambient air temperature for operation  Electrical shock protection	TH -4070 °C -2570 °C				
Environment  Protective treatment  Ambient air temperature for storage  Ambient air temperature for operation  Electrical shock protection class	Complete product  TH  -4070 °C  -2570 °C  Class I conforming to IEC 61140  IP69K conforming to IEC 60529				
Environment  Protective treatment  Ambient air temperature for storage  Ambient air temperature for operation  Electrical shock protection class  IP degree of protection	Complete product  TH  -4070 °C  -2570 °C  Class I conforming to IEC 61140  IP69K conforming to IEC 60529 IP69 conforming to IEC 60529 IP69 conforming to IEC 60529 NEMA 13				
Environment  Protective treatment  Ambient air temperature for storage  Ambient air temperature for operation  Electrical shock protection class  IP degree of protection  NEMA degree of protection	Complete product  TH  -4070 °C  -2570 °C  Class I conforming to IEC 61140  IP69K conforming to IEC 60529 IP69 conforming to IEC 60529 NEMA 13 NEMA 4X				
Environment  Protective treatment  Ambient air temperature for storage  Ambient air temperature for operation  Electrical shock protection class  IP degree of protection  NEMA degree of protection	TH  -4070 °C  -2570 °C  Class I conforming to IEC 61140  IP69K conforming to IEC 60529 IP69 conforming to IEC 60529 INEMA 13 NEMA 4X  IK06 conforming to IEC 50102  EN/IEC 60947-1 EN/IEC 60947-5-5 EN/IEC 60947-5-4 EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14 JIS C8201-5-1				
Environment  Protective treatment  Ambient air temperature for storage  Ambient air temperature for operation  Electrical shock protection class  IP degree of protection  NEMA degree of protection  IK degree of protection  Standards	TH  -4070 °C  -2570 °C  Class I conforming to IEC 61140  IP69K conforming to IEC 60529 IP69 conforming to IEC 60529 INEMA 13 NEMA 4X  IK06 conforming to IEC 50102  EN/IEC 60947-1 EN/IEC 60947-5-5 EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14 JIS C8201-5-1 JIS C8201-51 UL listed CSA BV DNV LROS (Lloyds register of shipping)				

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	125.0 g
Package 1 Height	3.3 cm
Package 1 width	5.3 cm
Package 1 Length	8.6 cm

# Offer Sustainability

Sustainable offer status	Green Premium product			
REACh Regulation	REACh Declaration			
REACh free of SVHC	Yes			
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			
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins			

# **Contractual warranty**

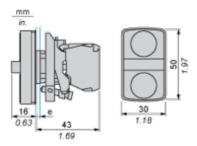
Warranty	18 months		
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# **Product datasheet**

# XB4BA711237

**Dimensions Drawings** 

## **Dimensions**



e: clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.

## **Product datasheet**

# XB4BA711237

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

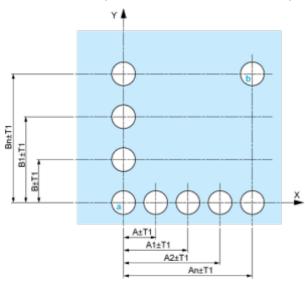
Connection by Faston Connectors

- (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.

Mounting and Clearance

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

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

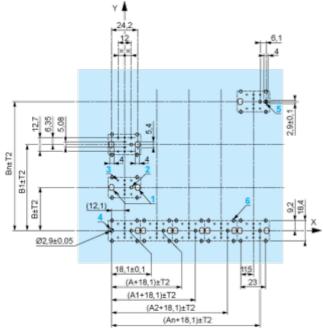


A: 30 mm min. / 1.18 in. min.

**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.

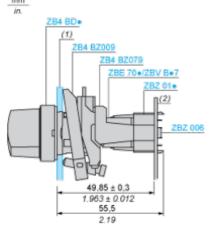
#### General Tolerances of the Panel and Printed Circuit Board

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•.