## Product data sheet Characteristics

## ZB4BT2

## black Ø40 mushroom pushbutton head Ø22 latching push-pull





#### Main

Main		
Range of product	Harmony XB4	
Product or component type	Head for non-illuminated push-button	
Device short name	ZB4	
Bezel material	Chromium plated metal	
Mounting diameter	22 mm	
Sale per indivisible quantity	1	
Head type	Standard	
Shape of signaling unit head	Round	
Type of operator	Latching	
Reset	Push-pull	
<u> </u>	Black mushroom Ø 40 mm unmarked	
Complementary	Black mushroom Ø 40 mm unmarked  40 mm	
Complementary  CAD overall width		
Complementary CAD overall width CAD overall height	40 mm	
Complementary CAD overall width CAD overall height CAD overall depth	40 mm 40 mm	
Operator profile  Complementary CAD overall width CAD overall height CAD overall depth Product weight Mechanical durability	40 mm 40 mm 56 mm	
Complementary CAD overall width CAD overall height CAD overall depth Product weight	40 mm 40 mm 56 mm 0.077 kg	
Complementary CAD overall width CAD overall height CAD overall depth Product weight Mechanical durability Electrical composition code	40 mm  40 mm  56 mm  0.077 kg  500000 cycles  C11 for <= 3 contacts using single blocks in front mounting C15 for 1 contacts using single 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	
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### Complementary

CAD overall width	40 mm	
CAD overall height	40 mm	
CAD overall depth	56 mm	
Product weight	0.077 kg	
Mechanical durability	500000 cycles	
Electrical composition code	C11 for <= 3 contacts using single blocks in front mounting C15 for 1 contacts using single 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 C10 for <= 4 contacts using single and double blocks in front mounting	

#### Environment

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Protective treatment	TH	000
Ambient air temperature for storage	-4070 °C	pr.
Ambient air temperature for operation	-4070 °C	Wie C

Overvoltage category	Class I conforming to IEC 60536			
IP degree of protection	IP69 IP67 IP66 conforming to IEC 60529 IP69K			
NEMA degree of protection	NEMA 13 NEMA 4X			
IK degree of protection	IK06 conforming to IEC 50102			
Standards	JIS C 4520 CSA C22.2 No 14 EN/IEC 60947-5-4 EN/IEC 60947-1 EN/IEC 60947-5-5 EN/IEC 60947-5-1 UL 508			
Product certifications	GL LROS (Lloyds register of shipping) UL listed DNV BV CSA RINA			
Vibration resistance	ance 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			

## Offer Sustainability

Sustainable offer status	Green Premium product		
RoHS (date code: YYWW)	Compliant - since 0627 - Schneider Electric declaration of conformity		
	Schneider Electric declaration of conformity		
REACh	Reference not containing SVHC above the threshold		
	Reference not containing SVHC above the threshold		
Product environmental profile	Available		
	Product environmental		
Product end of life instructions	Need no specific recycling operations		

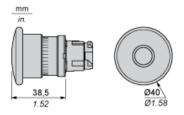
#### Contractual warranty

Warranty period	18 months	

# Product data sheet Dimensions Drawings

# ZB4BT2

### **Dimensions**



## ZB4BT2

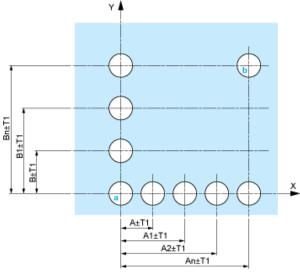
### Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

Connection by Screw Clamp Terminals or Plug-in Connectors or on Connection by Faston Connectors Printed Circuit Board

- Diameter on finished panel or support
- 40 mm min. / 1.57 in. min.
- 30 mm min. / 1.18 in. min.
- (1) (2) (3) (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

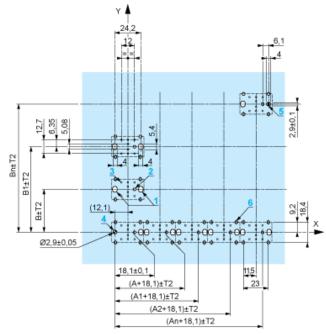
### Panel Cut-outs (Viewed from Installer's Side)



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

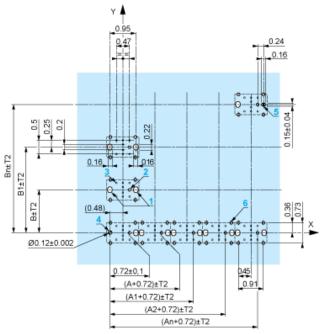
### Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

#### Dimensions in mm



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

#### Dimensions in in.



A: 1.18 in. min. B: 1.57 in. min.

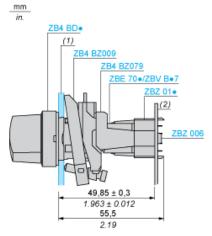
#### General Tolerances of the Panel and Printed Circuit Board

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:
  - 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  $\pm$  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  $\pm$  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 Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ 01•.

# ZB4BT2

Electrical Composition Corresponding to Code C7



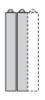
## ZB4BT2

Electrical Compositions Corresponding to Code C8



# ZB4BT2

Electrical Compositions Corresponding to Code C10



## ZB4BT2

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



## Electrical Composition Corresponding to Code C15

1 N/O



1 N/C



1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C



## ZB4BT2

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	с	u	н	п	u
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Single contact



Double contact



Light block



Possible location

