# green flush pushbutton head Ø22 spring return unmarked

Local distributor code: 237160836 ZB5AA38

Important message: A change in appearance may be noted on the product but does not affect its use in terms of function and safety. This makes it compatible with our Universal LED blocks

EAN Code: 3389110904666

### Main

Range of product	Harmony XB5			
Product or component type	Head for illuminated push-button			
Device short name	ZB5			
Product compatibility	Iniversal LED			
Bezel material	Dark grey plastic			
Mounting diameter	22 mm			
Sale per indivisible quantity	1			
Head type	Standard			
Shape of signaling unit head	Round			
Type of operator	spring return			
Operator profile	Green flush, unmarked			
Operator additional information	For insertion of legend			

### Complementary

CAD overall width	29 mm		
CAD overall height	29 mm		
CAD overall depth	30 mm		
Net weight	0.018 kg		
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m		
Mechanical durability	10000000 cycles		
Main group	Illum push-button		
Group of product	Flush push with inser of legend		
Station name	XALD 15 cut-outs XALK 25 cut-outs		
Cap/Operator or lens colour	Green		
Marking	Unmarked		
Electrical composition code	M1 for <6 contacts using single blocks in front mounting with integral LED M2 for <6 contacts using single and double blocks in front mounting with integral LED		

MF1 for <2 contacts using single blocks in front mounting with integral LED MR1 for <2 contacts using single blocks in rear mounting with integral LED

M10 for <2 contacts using single blocks in front mounting with integral LED

M6 for <2 contacts using single blocks in front mounting with integral LED and transformer

C3 for <6 contacts using single blocks in front mounting
C4 for <6 contacts using single and double blocks in front mounting
C14 for <2 contacts using single blocks in front mounting
SF2 for <2 contacts using single blocks in front mounting
SR2 for <2 contacts using single blocks in rear mounting

**Device presentation** Basic element

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Protective treatment	TC		
Ambient air temperature for storage	-4070 °C		
Ambient air temperature for operation	-4070 °C		
Overvoltage category	Class II 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	IK03 conforming to EN 50102		
Standards	EN/IEC 60947-1 JIS C8201-5-1 GB 14048.5 UL 508 CSA C22.2 No 14 EN/IEC 60947-5-4 EN/IEC 60947-5-1 JIS C8201-1		
Product certifications	BV UL listed LROS (Lloyds register of shipping) CSA GL DNV		
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	8.800 cm
Package 1 Width	3.400 cm
Package 1 Length	5.400 cm
Package 1 Weight	21.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	150
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.597 kg
Unit Type of Package 3	P06
Number of Units in Package 3	1200
Package 3 Height	77.000 cm
Package 3 Width	80.000 cm

Package 3 Length	60.000 cm
Package 3 Weight	39.404 kg
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
Toxic heavy metal free	Yes
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

# **ZB5AA38**

**Dimensions Drawings** 

### **Dimensions**

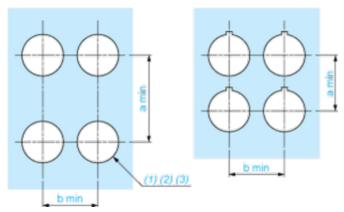




Mounting and Clearance

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

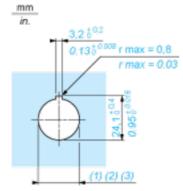
### Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended (Ø22.3  $_0^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 in.  $_0^{+0.016}$ )

Connections	a in mm	a in in.	b in mm	b in in.
By screw clamp terminals or plug-in connector	40	1.57	30	1.18
By Faston connectors	45	1.77	32	1.26
On printed circuit board	30	1.18	30	1.18

### **Detail of Lug Recess**

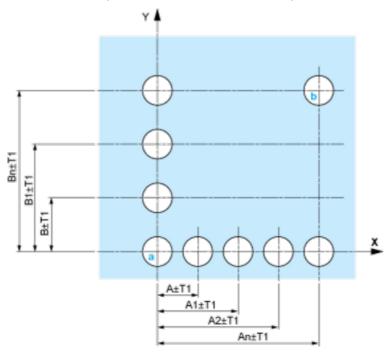


- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended (Ø22.3  $_0^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 in.  $_0^{+0.016}$ )

Mounting and Clearance

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

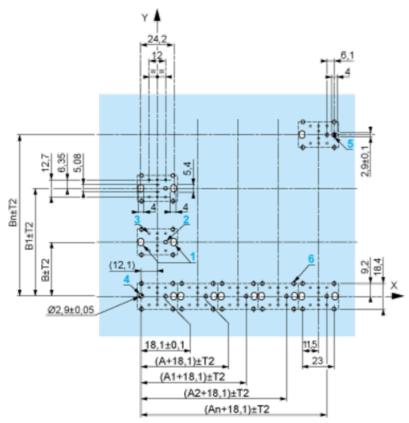
### Panel Cut-outs (Viewed from Installer's Side)



**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)

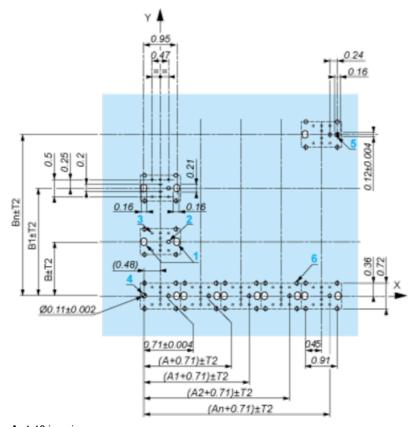
Dimensions in mm



**A:** 30 mm min.

**B**: 40 mm min.

Dimensions in in.



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

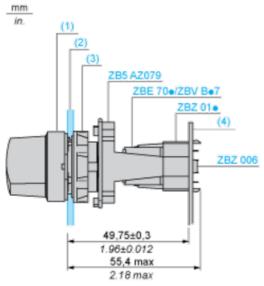
#### General Tolerances of the Panel and Printed Circuit Board

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 ZB5AZ009: ± 2 30' (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB5AZ079 fixing collar/pillar and its fixing screws:
  - $\circ$  every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - $\circ$   $\;$  with each selector switch head (ZB5AD•, ZB5AJ•, ZB5AG•).

The fixing centers marked  ${\bf a}$  and  ${\bf b}$  are diagonally opposed and must align with those marked  ${\bf 4}$  and  ${\bf 5}$ .



- (1) Head ZB5AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

### Mounting of Adapter (Socket) ZBZ01•

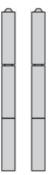
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01•
- $3.8 \times \emptyset 1.2 \text{ mm} / 0.05 \text{ in. holes}$
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 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 ZBZ01•

Dimensions An + 18.1 relate to the Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ01•.

# **ZB5AA38**

Technical Description

**Electrical Composition Corresponding to Code C3** 



**ZB5AA38** 

Technical Description

**Electrical Composition Corresponding to Code C4** 



# **ZB5AA38**

Technical Description

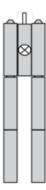
Electrical Composition Corresponding to Codes C14, SF2 and SR2



**ZB5AA38** 

Technical Description

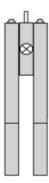
**Electrical Composition Corresponding to Codes M1 and M7** 



# **ZB5AA38**

Technical Description

**Electrical Composition Corresponding to Codes M2 and M8** 



**ZB5AA38** 

Technical Description

**Electrical Composition Corresponding to Codes M6 and P2** 



# **ZB5AA38**

Technical Description

Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



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Technical Description

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Single contact



Double contact



Light block

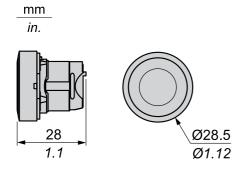


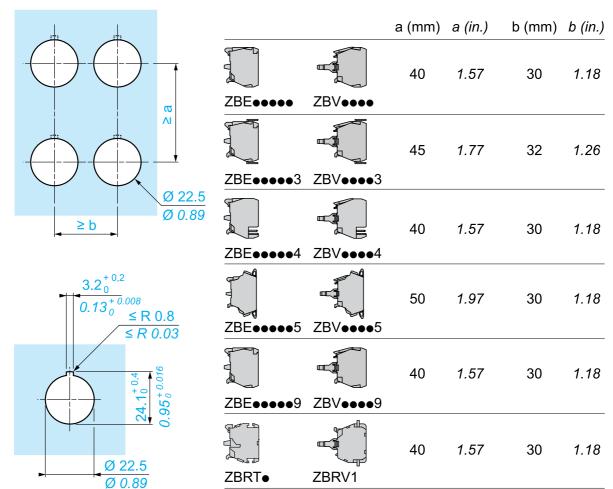
Possible location



**Technical Illustration** 

### **Dimensions**





Recommended replacement(s)