

## Product data sheet Characteristics

## ZB5AA341

Head for non illuminated push button, Harmony XB5, XB4, green flush pushbutton Ø22 mm spring return "ON"



CAD overall depth	28 mm				
Net weight	0.018 kg				
Mechanical durability	1000000 cycles				
Station name					
Claton name	XALD 15 cut-outs XALK 25 cut-outs				
Electrical composition code	C1 for <9 contacts using single blocks in front mounting C2 for <9 contacts using single and double blocks in front mounting C11 for <3 contacts using single blocks in front mounting C15 for <1 contacts using single blocks in front mounting SF1 for <3 contacts using single blocks in front mounting SR1 for <3 contacts using single blocks in rear mounting				
Device presentation	Basic element				
Environment Protective treatment	TH				
Protective treatment Ambient air temperature for storage	-4070 °C				
Protective treatment					
Protective treatment Ambient air temperature for storage Ambient air temperature for operation Overvoltage category	-4070 °C	00536			
Protective treatment Ambient air temperature for storage Ambient air temperature for operation Overvoltage category IP degree of protection	-4070 °C -4070 °C				
Protective treatment Ambient air temperature for storage Ambient air temperature for operation Overvoltage category	-4070 °C -4070 °C Class II conforming to IEC IP66 conforming to IEC 60 IP67 IP69 IP69K NEMA 13				
Protective treatment Ambient air temperature for storage Ambient air temperature for operation Overvoltage category IP degree of protection	-4070 °C -4070 °C Class II conforming to IEC IP66 conforming to IEC 60 IP67 IP69 IP69K	0529			

Standards	IEC 60947-5-1			
	CSA C22.2 No 14			
	IEC 60947-1			
	UL 508			
	IEC 60947-5-4			
	JIS C8201-5-1			
	JIS C8201-1			
Product certifications	UL listed[RETURN]DNV[RETURN]LROS (Lloyds register of shipping) [RETURN]CSA[RETURN]GL[RETURN]BV			
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			
Vibration resistance	5 gn (f= 2500 Hz) conforming to IEC 60068-2-6			

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.000 cm
Package 1 Width	3.600 cm
Package 1 Length	4.800 cm
Package 1 Weight	16.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Height	4.200 cm
Package 2 Width	3.300 cm
Package 2 Length	26.000 cm
Package 2 Weight	87.000 g
Unit Type of Package 3	S02
Number of Units in Package 3	150
Package 3 Height	15.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	2.850 kg

#### Offer Sustainability

Sustainable offer status	Green Premium product		
REACh Regulation			
REACh free of SVHC	Yes		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
Mercury free	Yes		
China RoHS Regulation	China RoHS Declaration		
RoHS exemption information	₫ Yes		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End Of Life Information		

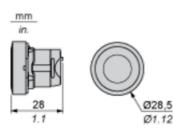
#### Contractual warranty

Warranty

18 months

Product data sheet Dimensions Drawings ZB5AA341

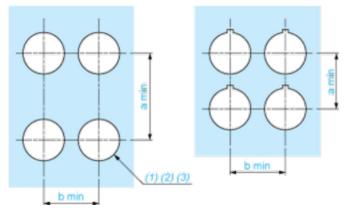
#### Dimensions



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

ZB5AA341

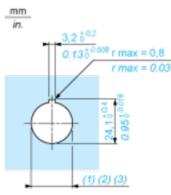
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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  $_0$  <sup>+0.4</sup>) / Ø0.89 in. recommended (Ø0.88 in.  $_0$  <sup>+0.016</sup>)

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  $_0$  <sup>+0.4</sup>) / Ø0.89 in. recommended (Ø0.88 in.  $_0$  <sup>+0.016</sup>)

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:
  - every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - with each selector switch head (ZB5AD•, ZB5AJ•, ZB5AG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



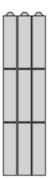
#### Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ01•
- 38 × 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 ZBZ01•

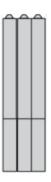
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

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#### Electrical Composition Corresponding to Code C1



Electrical Composition Corresponding to Code C2



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

Electrical Composition Corresponding to Code C15

1 N/O

1 N/C

### Legend

Single contact

Double contact

#### Light block

#### Possible location