

## Product data sheet Characteristics

## **ZB5AZ101**

Harmony XB5, Single contact block with body/ fixing collar, plastic, screw clamp terminal,1 NO





#### Main

Range of product Harmony XB5  Product or component type  Device short name ZB5  Fixing collar material Plastic  Sale per indivisible quantity  Head type Standard  Contacts type and composition  Contact operation Slow-break  Contact block type Single  Connections - terminals Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN 60947-1  Screw clamp terminals, >= 1 x 0.22 mm² without cable end conforming to EN 60947-1		
type  Device short name  ZB5  Fixing collar material  Plastic  Sale per indivisible quantity  Head type  Standard  Contacts type and composition  Contact operation  Contact block type  Single  Connections - terminals  Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN 60947-1 Screw clamp terminals, >= 1 x 0.22 mm² without	Range of product	Harmony XB5
Fixing collar material Plastic  Sale per indivisible quantity  Head type Standard  Contacts type and composition  Contact operation Slow-break  Contact block type Single  Connections - terminals Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN 60947-1 Screw clamp terminals, >= 1 x 0.22 mm² without	•	Complete body/contact assembly
Sale per indivisible quantity  Head type Standard  Contacts type and composition  Contact operation Slow-break  Contact block type Single  Connections - terminals Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN 60947-1 Screw clamp terminals, >= 1 x 0.22 mm² without	Device short name	ZB5
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Contacts type and composition  Contact operation  Contact block type  Single  Connections - terminals  Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN 60947-1 Screw clamp terminals, >= 1 x 0.22 mm² without	•	1
Contact operation  Contact block type  Single  Connections - terminals  Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN 60947-1 Screw clamp terminals, >= 1 x 0.22 mm² without	Head type	Standard
Contact block type  Single  Connections - terminals  Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN 60947-1 Screw clamp terminals, >= 1 x 0.22 mm² without	• •	1 NO
Connections - terminals  Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN 60947-1  Screw clamp terminals, >= 1 x 0.22 mm² without	Contact operation	Slow-break
end conforming to EN 60947-1 Screw clamp terminals, >= 1 x 0.22 mm² without	Contact block type	Single
	Connections - terminals	end conforming to EN 60947-1 Screw clamp terminals, >= 1 x 0.22 mm <sup>2</sup> without

#### Complementary

Complementary			
CAD overall width	30 mm		
CAD overall height	42 mm		
CAD overall depth	32 mm		
Terminals description ISO n°1	(13-14)NO		
Net weight	0.021 kg		
Device composition	Fixing collar Body		
Contacts usage	Standard contacts		
Positive opening	Without		
Operating travel	2.6 Mm (NO changing electrical state)     4.3 mm (total travel)		
Operating force	2.3 N NO changing electrical state		
Mechanical durability	10000000 cycles		
Tightening torque	0.81.2 N.m conforming to EN 60947-1		
Shape of screw head	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	EN 60947-1 6 kV		
[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 et 220 V exerciting rate <2600 eye/b lead factor:
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	Λ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to EN/IEC
,	60947-5-4
	Λ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to EN/IEC
	60947-5-4
Device presentation	Basic sub-assemblies

#### Environment

Protective treatment	TH		
Ambient air temperature for storage	-4070 °C		
Ambient air temperature for operation	-4070 °C		
IP degree of protection	IP20 conforming to IEC 60529		
Standards	UL 508 EN/IEC 60947-5-1 CSA C22.2 No 14 EN/IEC 60947-5-4 EN/IEC 60947-1 JIS C8201-5-1 JIS C8201-1		
Product certifications	BV DNV UL CSA GL LROS (Lloyds register of shipping)		
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

Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	20 g
Package 1 Height	3.4 cm
Package 1 width	4.5 cm
Package 1 Length	5.4 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Weight	101 g
Package 2 Height	3.4 cm
Package 2 width	4.5 cm
Package 2 Length	26.5 cm
Unit Type of Package 3	S03
Number of Units in Package 3	300
Package 3 Weight	6.53 kg
Package 3 Height	30 cm
Package 3 width	30 cm
Package 3 Length	40 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			
Toxic heavy metal free	Yes			
Mercury free	Yes			
RoHS exemption information	₽¥Yes			
China RoHS Regulation	<sup>☑</sup> 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			

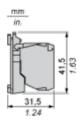
#### Contractual warranty

Warranty	18 months

# Product data sheet Dimensions Drawings

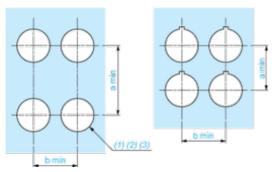
# **ZB5AZ101**

#### **Dimensions**



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

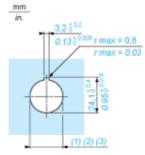
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



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