

# Product datasheet

Specifications



## Single contact block, Harmony XB5N XB7N, silver alloy, screw clamp terminal, 1 NC

ZBE102N

### Main

Range of product	Harmony XB5N/XB7N
Product or component type	Contact block with protected terminals
Device short name	ZBE
Sale per indivisible quantity	20
Contact block type	Single

### Complementary

Fixing collar material	Plastic
Terminals description ISO n°1	(11-12)NC
Net weight	0.011 kg
Contacts type and composition	1 NC
Contact operation	Slow-break
Contacts usage	Standard contacts
Positive opening	With conforming to IEC 60947-5-1 appendix K
Operating travel	2.6 mm (NC changing electrical state) 4.3 mm (total travel)
Operating force	3.5 N NC changing electrical state
Operating torque	0.14 N.m
Torque value	0.14 N.m
Mechanical durability	5000000 cycles
Connections - terminals	Screw clamp terminal, $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to IEC 60947-1 Screw clamp terminal, $\geq 1 \times 0.22 \text{ mm}^2$ without cable end conforming to IEC 60947-1
Tightening torque	0.8...1.2 N.m conforming to IEC 60947-1
Shape of screw head	Cross compatible with Philips no 1 screwdriver Cross compatible with pozidriv No 1 screwdriver Slotted compatible with flat $\varnothing 4 \text{ mm}$ screwdriver Slotted compatible with flat $\varnothing 5.5 \text{ mm}$ screwdriver
Contacts material	Silver alloy (Ag/Ni)
Short-circuit protection	10 A cartridge fuse type gG conforming to IEC 60947-5-1
[Ith] conventional free air thermal current	10 A conforming to IEC 60947-5-1
[Ui] rated insulation voltage	600 V (pollution degree 3) conforming to IEC 60947-1
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947-1

<b>[Ie] rated operational current</b>	3 A at 240 V, AC-15, A600 conforming to IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to IEC 60947-5-1 0.1 A at 600 V, DC-13, Q600 conforming to IEC 60947-5-1 0.27 A at 250 V, DC-13, Q600 conforming to IEC 60947-5-1 0.55 A at 125 V, DC-13, Q600 conforming to IEC 60947-5-1 1.2 A at 600 V, AC-15, A600 conforming to IEC 60947-5-1
<b>Electrical durability</b>	1000000 cycles, AC-15, 2 A at 230 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to 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 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 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 IEC 60947-5-1 appendix C 1000000 cycles, AC-15, 0.5 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
<b>Electrical reliability</b>	$\Lambda < 10\text{exp}(-6)$ at 5 V, 1 mA in clean environment conforming to IEC 60947-5-4 $\Lambda < 10\text{exp}(-8)$ at 17 V, 5 mA in clean environment conforming to IEC 60947-5-4

## Environment

<b>Protective treatment</b>	Standard version
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Standards</b>	IEC 60947-5-4 IEC 60947-1 IEC 60947-5-1 IS 13947-5-1
<b>Product certifications</b>	CE
<b>Vibration resistance</b>	5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6
<b>Shock resistance</b>	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

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	2.5 cm
<b>Package 1 Width</b>	3 cm
<b>Package 1 Length</b>	3 cm
<b>Package 1 Weight</b>	10 g
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	20
<b>Package 2 Height</b>	6 cm
<b>Package 2 Width</b>	8 cm
<b>Package 2 Length</b>	11 cm
<b>Package 2 Weight</b>	224 g
<b>Unit Type of Package 3</b>	S03
<b>Number of Units in Package 3</b>	400
<b>Package 3 Height</b>	30 cm
<b>Package 3 Width</b>	30 cm

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Package 3 Length 40 cm

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Package 3 Weight 5175 g

## Contractual warranty

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Warranty 18 months

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[How this information helps you >](#)

### Environmental footprint

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) **1**

[Environmental Disclosure](#)

[Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging without single use plastic **No**

EU RoHS Directive **Pro-active compliance (Product out of EU RoHS legal scope)**

REACH Regulation [REACH Declaration](#)

China RoHS Regulation [China RoHS declaration](#)

## Use Again

### Repack and remanufacture

Circularity Profile **No need of specific recycling operations**

WEEE



**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**

Take-back

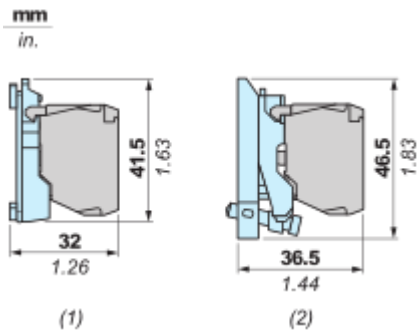
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Dimensions Drawings

Dimensions

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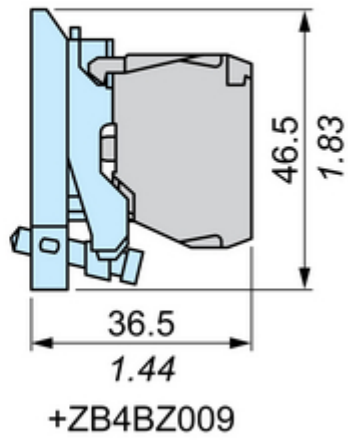
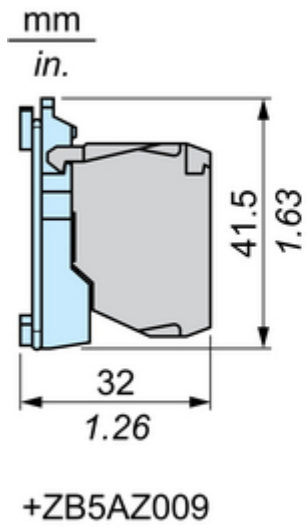


- (1) with ZB5AZ009 Fixing Collar
- (2) with ZB4BZ009 Fixing Collar

Technical Illustration

Dimensions

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Offer Marketing Illustration

Product benefits / Features

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## Technical Benefits

### Harmony XB4

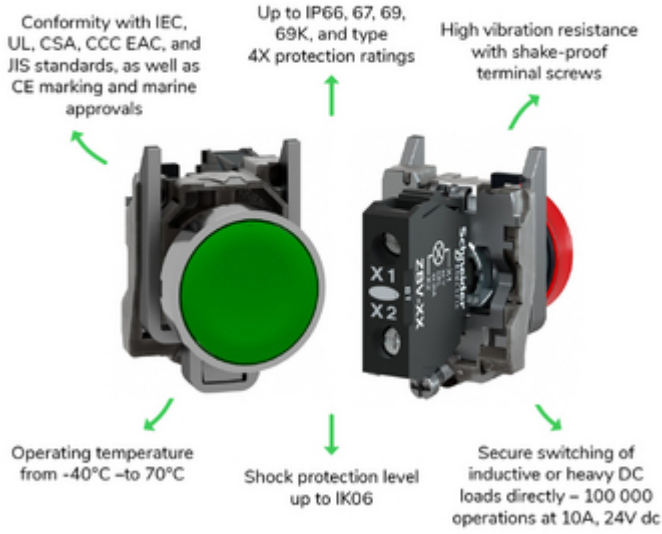




Image of product / Alternate images

Alternative

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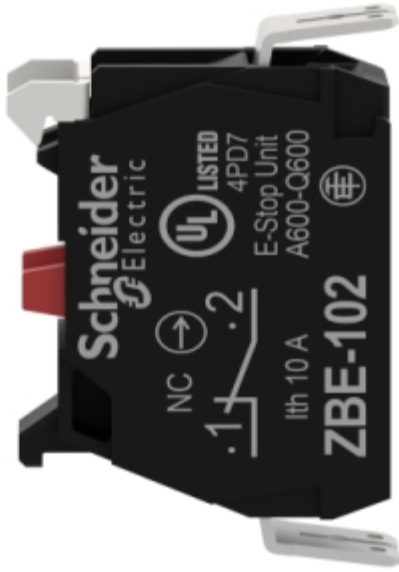






Image of product in real life situation

