

# Product data sheet

Specifications



## Biometric switch bistable, Harmony XB5S, plastic, 22mm, connection by 2m cable, 24V AC DC

XB5S1B2L2

### Main

Product or component type	Biometric switch
Product specific application	Industrial machines Materials handling
Device short name	XB5S
Bezel material	Dark grey plastic
Mounting diameter	22 mm
Output type	PNP
Sale per indivisible quantity	1
IP degree of protection	IP20 (rear face) conforming to IEC 60529 IP65 (front face) conforming to IEC 60529
Type of operator	Stay put
Operator position information	2 positions
Operator profile	fingerprint reader
Connections - terminals	1 pre-wired cable, 3 x 0.34 mm <sup>2</sup>
Memory usage	200 users with up to 2 fingerprints per user

### Complementary

Enclosure material	Polyamide PA66
Cable insulation material	PvR
Operating position	Horizontal position Flat surface installation Vertical surface installation
Function of module	Bi-stable
Net weight	0.17 kg
Marking	CE
Local signalling	1 LED (green) for output state indicator 1 LED (orange) for administrator's registration mode 1 LED (orange) for operator's registration mode 1 LED (red) for error 1 LED (red) for reset
Short-circuit protection	250 mA external fuse type gG
[Us] rated supply voltage	24 V DC
Electrical connection	free wire ends with 3 wires of 2 m
Supply voltage limits	20...30 V DC

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Protection type	Short-circuit Reverse polarity Overload protection
Maximum switching current	200 mA
[Ures] residual voltage	1 V closed state
Current consumption	<= 70 mA no-load
Maximum delay first up	3 s + 0.5 ms per user registered
Maximum delay recovery	1.5 s
Maximum delay response	1.5 s

## Environment

Range of product	Harmony XB5S
Ambient air temperature for storage	-25...70 °C
Ambient air temperature for operation	-5...50 °C
NEMA degree of protection	NEMA 12
Standards	IEC 61000-6-4 IEC 61000-6-2
Product certifications	UL CSA
Vibration resistance	+/- 3 mm (f= 5...9 Hz) conforming to IEC 60068-2-6 1 gn (f= 9...500 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn 11 ms conforming to IEC 60068-2-27

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.8 cm
Package 1 Width	9.5 cm
Package 1 Length	18.5 cm
Package 1 Weight	196.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	8
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.904 kg

## Contractual warranty

Warranty	18 months
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## 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.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint 173

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard No

Packaging without single use plastic No

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

California proposition 65 **WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

## Use Again

### Repack and remanufacture

End of life manual availability [End of Life Information](#)

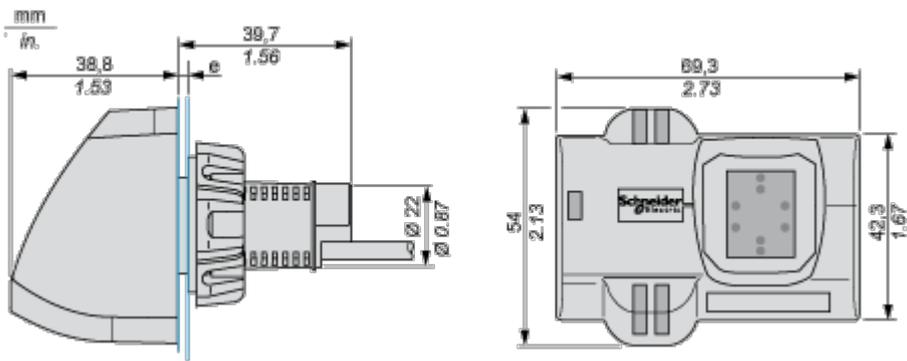
Take-back No

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

Dimensions Drawings

Dimensions of Biometric Switches

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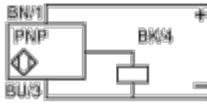


e: 1 to 6 mm / 0.04 to 0.24 in.

## Connections and Schema

### Cable with PNP Output

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BU: Blue

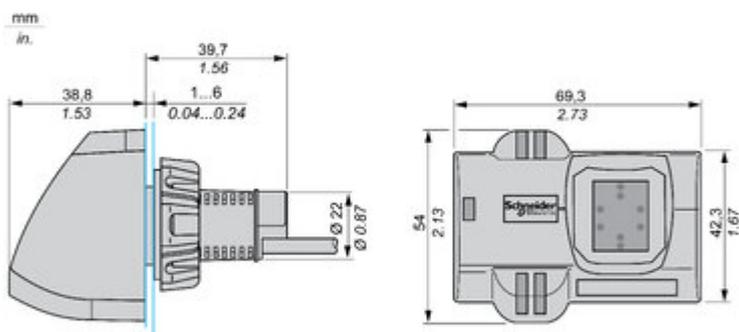
BN: Brown

BK: Black

Technical Illustration

Dimensions

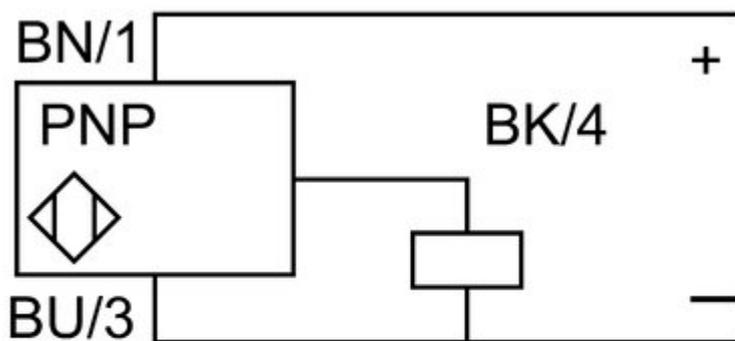
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Technical Illustration

Wiring diagram

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BN = ●

BU = ●

BK = ●

Image of product / Alternate images

Alternative

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Image of product in real life situation

