Product datasheet

Specifications

Biometric switch bistable, plastic, Ø22, connection by 2m cable, 24 V 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 EN/IEC 60529 IP65 (front face) conforming to EN/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 mm²
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
Product 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
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

Offer Sustainability
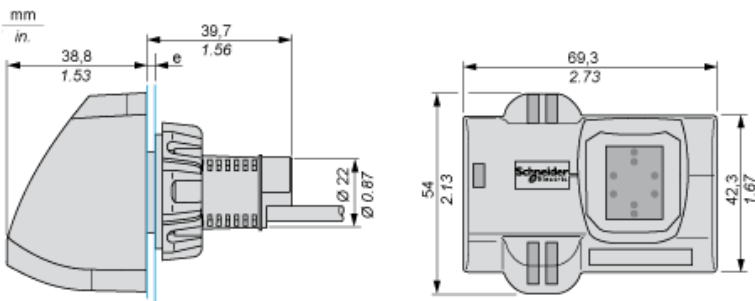
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile

Life Is On | Schneider Electric

| 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 |

Dimensions of Biometric Switches

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

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Cable with PNP Output
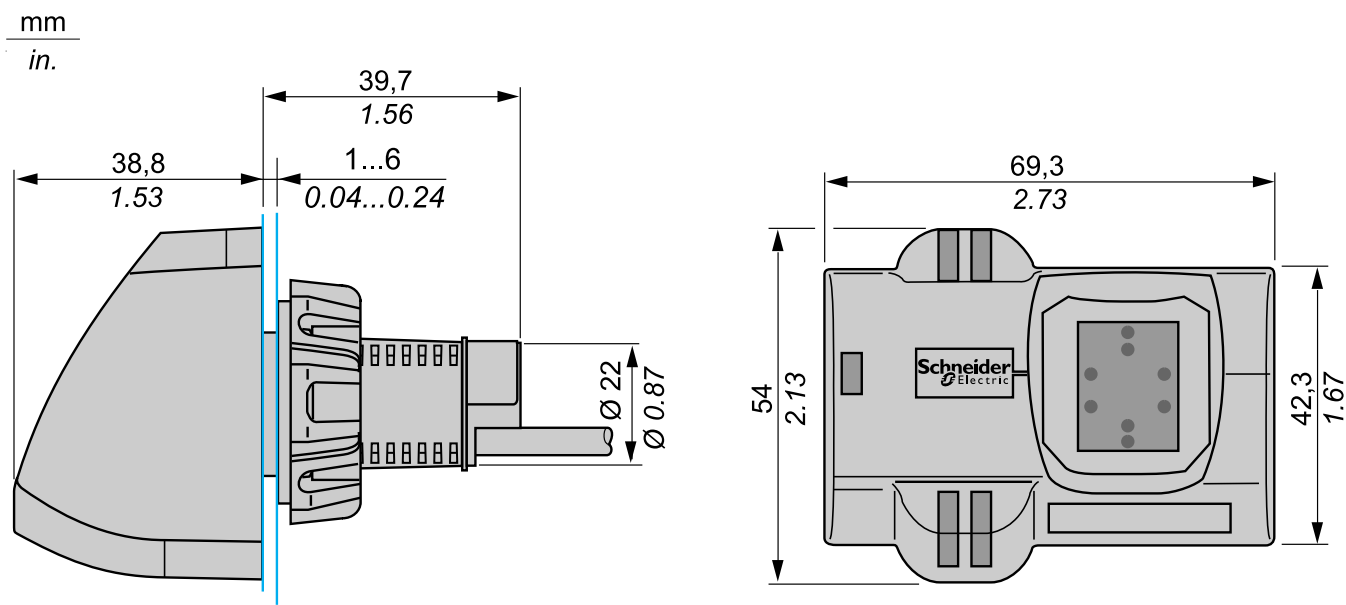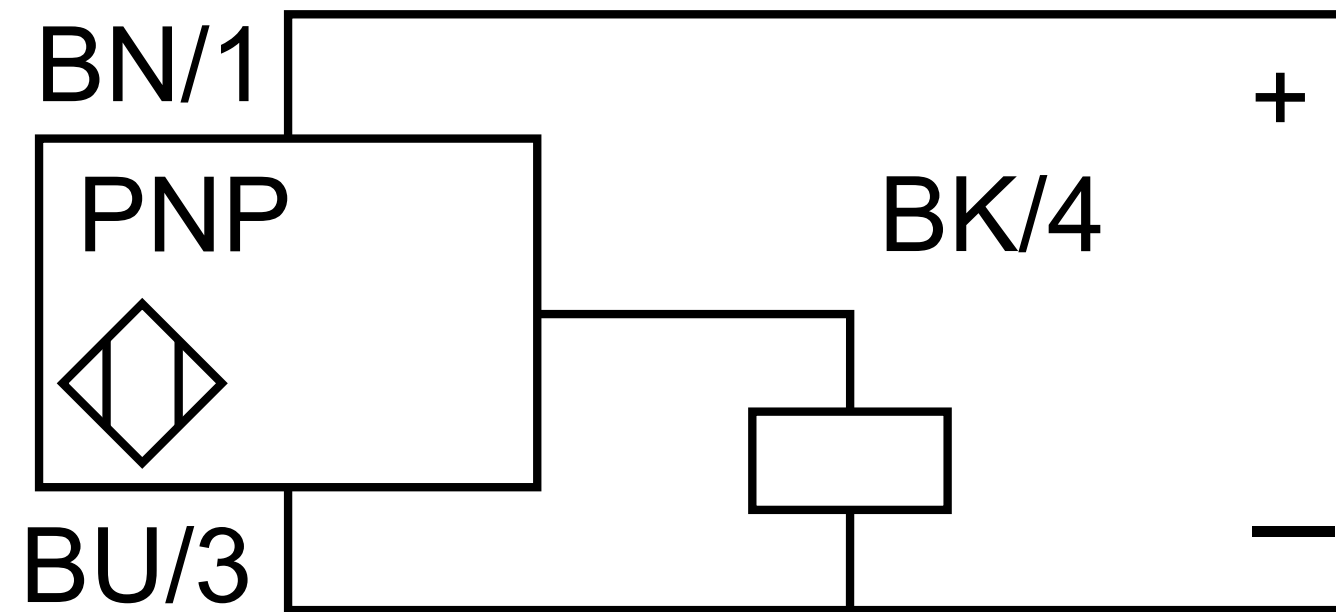
BU:	Blue
BN:	Brown
BK:	Black

Dimensions

mm / in.

39,7 / 1.56

38,8 / 1.53

1...6 / 0.04...0.24

Ø 22 / Ø 0.87

69,3 / 2.73

54 / 2.13

42,3 / 1.67

Schneider Electric

Wiring Diagram

BN/1

PNP

BU/3

+

BK/4

−

BN = ●

BU = ●

BK = ●

Recommended replacement(s)