## Product datasheet

Characteristics
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Main

| Product or component type | Biometric switch |
| :--- | :--- |
| Product specific application | Industrial machines <br> Materials handling |
| Device short name | XB5S |
| Bezel material | Plastic |
| Mounting diameter | 0.87 in (22 mm) |
| Output type | PNP |
| Sale per indivisible quantity | 1 |
| IP degree of protection | IP65 front face conforming to EN/IEC 60529 |


| Type of operator | Momentary |
| :--- | :--- |
| Operator profile | Fingerprint reader |
| Connections - terminals | 1 pre-wired cable, clamping capacity: $3 \times 0.11$ <br> $\mathrm{~mm}^{2}$ |
| Memory usage | 200 users with up to 2 fingerprints per user |

Complementary

| Software designation | XB5SSoft |
| :---: | :---: |
| Enclosure material | Polyamide PA66 |
| Cable insulation material | PvR |
| Operating position | Flat surface installation Horizontal position Vertical surface installation |
| Function of module | Monostable |
| Product weight | $0.45 \mathrm{lb}(\mathrm{US})(0.202 \mathrm{~kg})$ |
| Marking | CE |
| Communication port protocol | USB |
| Connector type | USB type A male with 3.28 ft (1 m) cable |
| Local signalling | 1 LED green, function: output state indicator 1 LED red, function: error |
| Short-circuit protection | 250 mA by gG external fuse |
| [Us] rated supply voltage | 24 V DC |
| Electrical connection | Free wire ends with 3 wires of $6.56 \mathrm{ft}(2 \mathrm{~m})$ |
| Supply voltage limits | 20... 30 V DC |
| Protection type | Overload protection Reverse polarity Short-circuit |
| Maximum switching current | 200 mA |
| [Ures] residual voltage | 1 V , closed state |
| Current consumption | $<=70 \mathrm{~mA} \mathrm{no-load}$ |
| Delay first up | <= $3 \mathrm{~s}+0.5 \mathrm{~ms}$ per user registered |
| Delay recovery | $<=1.5 \mathrm{~s}$ |
| Delay response | <=1.5 s |

Environment

| range of product | Harmony XB5S |
| :--- | :--- |
| ambient air temperature for storage | $-13 \ldots .158{ }^{\circ} \mathrm{F}\left(-25 \ldots . .70^{\circ} \mathrm{C}\right)$ |
| ambient air temperature for operation | $23 \ldots 122^{\circ} \mathrm{F}\left(-5 \ldots . .50^{\circ} \mathrm{C}\right)$ |
| NEMA degree of protection | NEMA 12 |
| standards | IEC $61000-6-2$ |


| product certifications | CSA |
| :--- | :--- |
|  | UL |
| vibration resistance | $+/-3 \mathrm{~mm} \mathrm{(f}=5 \ldots 9 \mathrm{~Hz})$ conforming to IEC 60068-2-6 |
|  | $1 \mathrm{gn} \mathrm{(f=9..500Hz)} \mathrm{conforming} \mathrm{to} \mathrm{IEC} \mathrm{60068-2-6}$ |
| shock resistance | 50 gn 11 ms conforming to IEC 60068-2-27 |

Offer Sustainability

| Not Green Premium product | Not Green Premium product |
| :--- | :--- |
| Compliant - since 0844 - Schneider Electric declaration <br> of conformity | Compliant - since 0844 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold | Reference not containing SVHC above the threshold |
| Available | Available |
| WARNING: This product can expose you to chemicals <br> including: | WARNING: This product can expose you to chemicals including: |

Lead and lead compounds, which is known to the State Lead and lead compounds, which is known to the State of California to cause cancer of California to cause cancer and birth defects or other and birth defects or other reproductive harm.
reproductive harm.
For more information go to www.p65warnings.ca.gov For more information go to www.p65warnings.ca.gov

Contractual warranty
Warranty period 18 months

Dimensions of Biometric Switches

e: 1 to $6 \mathrm{~mm} / 0.04$ to 0.24 in .

## Cable with PNP Output



BU: Blue
BN: Brown
BK: Black

