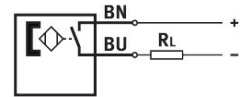


# Proximity sensor SDBT-BSW-1L-ZU-W-5-N-LE

Part number: 2427617

FESTO



## Data sheet

| Feature  | Value   |
|--|---|
| Design   | for T-slot  |
| Based on norm  | EN 60947-5-2  |
| Certification  | RCM compliance mark<br>c UL us - Listed (OL)  |
| CE marking (see declaration of conformity)           | As per EU EMC directive<br>As per EU RoHS directive   |
| UKCA marking (see declaration of conformity)         | To UK instructions for EMC<br>To UK RoHS instructions   |
| Special features                                     | UV-resistant<br>Oil-resistant<br>Welding field resistant<br>Resistant to welding spatter              |
| Note on materials                                    | RoHS-compliant  |
| Application note                                     | <a href="https://www.festo.com/Drive-Sensor-Overview">https://www.festo.com/Drive-Sensor-Overview</a> |
| Measured variable                                    | Position  |
| Measuring principle                                  | Magneto-resistive   |
| Ambient temperature                                  | -25 °C...85 °C  |
| Max. travel speed                                    | 1 m/s   |
| Repetition accuracy                                  | 0.2 mm  |
| Switching output                                     | Non-contact, 2-wire   |
| Switching characteristics during the welding process | Output signal freezes   |
| Switching element function                           | N/O contact   |
| On time  | 15 ms   |
| Switch-off time                                      | 25 ms   |
| Max. switching frequency                             | 25 Hz   |
| Max. output current                                  | 80 mA   |
| Max. output current in mounting kits                 | 80 mA   |
| Max. switching capacity DC                           | 1.9 W   |
| Max. switching capacity DC in mounting kits          | 1.9 W   |
| Voltage drop   | 6 V   |
| Inductive protective circuit                         | Adapted to MZ, MY and ME coils  |
| Minimum load current                                 | 2.4 mA  |
| Residual current                                     | 0.7 mA  |

| Feature  | Value  |
|--|--|
| Short-circuit protection                             | yes  |
| Overload protection                                  | Available  |
| Rated operating voltage DC                           | 24 V   |
| DC operating voltage range                           | 10 V...30 V  |
| Residual ripple                                      | 10 %   |
| Reverse polarity protection                          | for all electrical connections   |
| Electrical connection 1, connection type             | Cable  |
| Electrical connection 1, connection technology       | Open end   |
| Electrical connection 1, number of pins/wires        | 2  |
| Connection outlet orientation                        | Longitudinal   |
| Connector cable test conditions                      | Flexural strength: as per Festo standard<br>Test conditions on request   |
| Cable length   | 5 m  |
| Cable characteristic                                 | Resistant to welding spatter   |
| Color cable sheath                                   | Gray   |
| Material of cable sheath                             | PVC, cross-linked by irradiation   |
| Insulating sheath material                           | PVC  |
| Wire ends  | Cable end sleeve   |
| Type of mounting                                     | Screwed tightly<br>Can be inserted in slot from above  |
| Max. tightening torque                               | 0.6 Nm   |
| Mounting position                                    | Any  |
| Product weight                                       | 116.9 g  |
| Housing colour                                       | Black  |
| Housing material                                     | Epoxy resin<br>PA-reinforced<br>High-alloy stainless steel   |
| Switching status indication                          | LED yellow   |
| Function reserve indication                          | LED orange   |
| Ambient temperature with flexible cable installation | -5 °C...80 °C  |
| Degree of protection                                 | IP65<br>IP68   |
| Resistance to interference from magnetic fields      | Insensitive to AC magnetic fields (50...60 Hz) < 160 mT<br>Design insensitive to permanent magnetic fields < Bon |
| LABS (PWIS) conformity                               | VDMA24364-B2-L   |