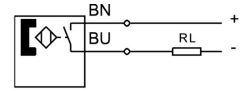


# Proximity sensor SDBT-BSW-1L-ZU-W-5-N-LE

Part number: 2427617

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Type code  | SDBT-BSW   |
| Design   | for T-slot   |
| Based on norm  | EN 60947-5-2   |
| Symbol   | 00991623   |
| Certification  | RCM compliance mark<br>c UL us - Listed (OL)   |
| CE marking (see declaration of conformity)           | As per EU EMC directive  |
| KC characters  | KC EMC   |
| Special features                                     | UV-resistant<br>Oil-resistant<br>Welding field resistant<br>Resistant to welding spatter |
| Note on materials                                    | Free of copper and PTFE<br>RoHS-compliant  |
| 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   |
| Minimum load current                                 | 2.4 mA   |
| Residual current                                     | <0.7 mA  |
| Short-circuit protection                             | yes  |
| Overload protection                                  | Available  |
| Rated operating voltage DC                           | 24 V   |
| DC operating voltage range                           | 10 V ... 30 V  |
| Reverse polarity protection                          | for all electrical connections   |

| Feature  | Value  |
|--|--|
| 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<br>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>Due to design, insensitive to permanent magnetic fields < Bon |