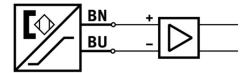


Proximity sensor SDBT-MS-20NL-ZN-E-10-LE-EX6

Part number: 579072

FESTO



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|---|--|
| Design | for T-slot |
| Based on norm | EN 60947-5-6 |
| Symbol | 00991433 |
| Certification | RCM compliance mark |
| CE marking (see declaration of conformity) | As per EU EMC directive as per EU explosion protection directive (ATEX) As per EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC acc. to UK EX instructions To UK RoHS instructions |
| Explosion prevention and protection | Zone 0 (ATEX) Zone 0 (BR) Zone 0 (CN) Zone 0 (IEC-EX) Zone 0 (KR) Zone 0 (UKEX) Zone 1 (ATEX) Zone 2 (ATEX) Zone 20 (ATEX) Zone 20 (BR) Zone 20 (CN) Zone 20 (IEC-EX) Zone 20 (KR) Zone 20 (UKEX) Zone 21 (ATEX) Zone 22 (ATEX) |
| ATEX category gas | II 1G |
| Type of ignition protection for gas | Ex ia IIC T4...T6 Ga |
| ATEX category for dust | II 1D |
| Type of (ignition) protection for dust | Ex ia IIIC T135°C Da |
| Explosion protection certification outside the EU | EPL Da (BR) EPL Da (CN) EPL Da (GB) EPL Da (IEC-EX) EPL Da (KR) EPL Ga (BR) EPL Ga (CN) EPL Ga (GB) EPL Ga (IEC-EX) EPL Ga (KR) |
| Explosive ambient temperature | T4, with fixed cable routing: $-40\text{ °C} \leq T_a \leq +85\text{ °C}$ T4: $-20\text{ °C} \leq T_a \leq +85\text{ °C}$ T6, with fixed cable routing: $-40\text{ °C} \leq T_a \leq +45\text{ °C}$ T6: $-20\text{ °C} \leq T_a \leq +45\text{ °C}$ |

| Feature | Value |
|--|--|
| Max. input voltage V_i | 28 V |
| Max. input current I_i | 0.25 A |
| Max. input power P_i | T4: 350 mW T6: 72 mW |
| Effective internal inductance L_i | 30 μ H |
| Effective internal capacitance C_i | 79 nF |
| Certificate issuing authority | 21-AV4BO-0130X 21-AV4BO-0131X CSAE 22UKEX1322X DNV 17.0027 X GYJ20.1106X IECEX PTZ 18.0008X PTZ 16 ATEX 0010 X |
| Special features | Oil-resistant |
| Note on materials | RoHS-compliant Halogen-free |
| Application note | Support / actuator-sensor overview "The right sensor for the actuator" |
| Measured variable | Position |
| Measuring principle | Magneto-resistive |
| Ambient temperature | -40 °C ... 85 °C |
| Repetition accuracy | 0.2 mm |
| Switching output | NAMUR |
| Switching element function | NAMUR |
| On time | <1 ms |
| Switch-off time | <1 ms |
| Max. switching frequency | 330 Hz |
| Residual current | 0.4 mA ... 1 mA |
| Rated operating voltage DC | 8.2 V |
| DC operating voltage range | 7.5 V ... 18 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 Test conditions on request |
| Cable length | 10 m |
| Cable characteristic | Suitable for energy chains Suitable for robot applications |
| Color cable sheath | Blue |
| Material of cable sheath | TPE-U(PUR) |
| Insulating sheath material | PP |
| Wire ends | Cable end sleeve |
| Type of mounting | Screwed tightly Can be inserted in slot from above |
| Tightening torque | 0.1 Nm ... 0.6 Nm |
| Max. tightening torque | 0.6 Nm |
| Mounting position | Any |
| Product weight | 104 g |
| Housing colour | Black |
| Housing material | PA-reinforced High-alloy stainless steel |
| Switching status indication | LED yellow |
| Ambient temperature with flexible cable installation | -20 °C ... 85 °C |

| Feature | Value |
|------------------------|----------------|
| Degree of protection | IP65 IP68 |
| LABS (PWIS) conformity | VDMA24364-B2-L |