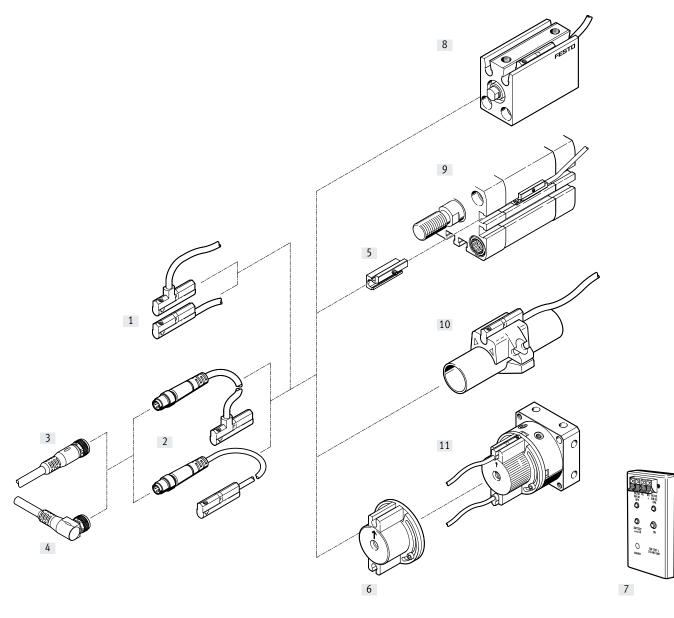




Product range overview

| Design | Type of mounting | Measuring principle | Туре | Operating voltage range | Switching output | Switching element function | → Page/ Internet |
|------------|-----------------------------|---------------------|---------|-------------------------|------------------------|----------------------------|---------------------|
| For C-slot | Standard | | | | | | |
| | Insertable in the slot from | Magneto-resistive | SMT-10M | 5 30 V DC | PNP | N/O contact | - |
| | above, flush with the | | | | NPN | | |
| | cylinder profile | | | | Non-contacting, 2-wire | | |
| | | Magnetic reed | SME-10M | 5 30 V AC/DC | Contacting, bipolar | N/O contact | - |
| | Insertable in the slot | Magneto-resistive | SMT-10G | 10 30 V DC | PNP, NPN | N/O contact | - |
| | lengthwise | Magnetic reed | SME-10 | 12 27 V AC/DC | Contacting | N/O contact | 5 |

Peripherals overview



| Moun | → Page/ Internet | |
|---------------------|--|----------|
| Proxi | mity sensor | |
| [1] | SME-10, with cable | 5 |
| [2] | SME-10, with cable and plug | 5 |
| | | |
| Conne | ecting cables | |
| Conne [3] | ecting cables Connecting cable NEBU-MG | 10 |
| | | 10 10 |
| [3] [4] | Connecting cable NEBU-MG | - |
| [3] [4] | Connecting cable NEBU-MG Connecting cable NEBU-MW | - |

| Mount | ing components and accessories | → Page/ Internet |
|--------|--------------------------------|---------------------|
| Access | ories | |
| [7] | Sensor tester SM-TEST-1 | 10 |
| - | Positioning element SMM-10 | 9 |
| - | Clip SMBK-10 | 10 |
| - | Inscription label ASLR | 10 |
| - | Safety clip NEAU | 10 |
| Drives | | |
| [8] | Drives with C-slot | - |
| [9] | Drives with T-slot | - |
| [10] | Round cylinder | - |
| [11] | Semi-rotary drive DSM | - |

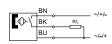
Type codes

| 001 | Series |
|-----|---|
| SME | Proximity sensor |
| 002 | Design type |
| 10 | For round slot, insertable in the slot lengthwise |
| 003 | Electrical connection, cable length, outlet orientation of connection |
| KL | Cable, 2.5 m, in-line |
| KQ | Cable, 2.5 m, lateral |
| SL | Plug M8x1 with cable, 0.3 m, in-line |
| SQ | |

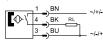
| 004 | Switching status indication | |
|-----|-----------------------------|--|
| LED | Yellow LED | |
| 005 | Rated operating voltage | |
| 24 | 24 V DC | |

Data sheet – Magnetic reed

Function N/O contact, 3-wire, with cable



N/O contact, 3-wire, with plug



General technical data

| Magneto-resistive measuring | |
|-----------------------------|--|
| magneto-resistive measuring | |
| principle | |

• Insertable in the slot lengthwise



| Design | | For C-slot | | | | |
|--|---|---|--|--|--|--|
| Mounting position | | Any | | | | |
| Measured variable | | Position | | | | |
| Conforms to standard | | EN 60947-5-2 | | | | |
| Certification | | RCM compliance mark | | | | |
| Application information | | Support / Actuator-sensor overview | | | | |
| CE marking (see declaration of conf | ormity) | To EU EMC Directive | | | | |
| | | To EU RoHS Directive | | | | |
| UKCA marking (see declaration of c | onformity) | To UK instructions for EMC | | | | |
| | | To UK RoHS instructions | | | | |
| Note on materials | | RoHS-compliant | | | | |
| Input signal/measuring element | | | | | | |
| Measuring principle | | Magnetic reed | | | | |
| Ambient temperature | [°C] | -20 +70 | | | | |
| | | | | | | |
| Switching output | | | | | | |
| Switching output | | Contacting, bipolar | | | | |
| Switching output Switching element function | ſmml | N/O contact | | | | |
| Switching output Switching element function Repetition accuracy | [mm] | N/O contact 0.2 | | | | |
| Switching output Switching element function Repetition accuracy Reproducibility of | [mm] | N/O contact | | | | |
| Switching output Switching element function Repetition accuracy | | N/O contact 0.2 | | | | |
| Switching output Switching element function Repetition accuracy Reproducibility of switching value | [mm] | N/O contact 0.2 ±0.1 | | | | |
| Switching output Switching element function Repetition accuracy Reproducibility of switching value Switch-on time | [mm] [ms] | N/O contact 0.2 ±0.1 ≤0.6 | | | | |
| Switching output Switching element function Repetition accuracy Reproducibility of switching value Switch-on time Switch-off time | [mm] [ms] [ms] | N/O contact 0.2 ±0.1 ≤0.6 ≤0.05 | | | | |
| Switching output Switching element function Repetition accuracy Reproducibility of switching value Switch-on time Switch-off time Max. output current | [mm] [ms] [ms] [mA] | N/O contact 0.2 ±0.1 ≤0.6 ≤0.05 100 | | | | |
| Switching output Switching element function Repetition accuracy Reproducibility of switching value Switch-on time Switch-off time Max. output current Max. switching frequency | [mm] [ms] [ms] [mA] [Hz] | N/O contact 0.2 ±0.1 ≤0.6 ≤0.05 100 500 | | | | |
| Switching output Switching element function Repetition accuracy Reproducibility of switching value Switch-on time Switch-off time Max. output current Max. switching frequency Max. switching capacity DC | [mm] [ms] [ms] [mA] [Hz] [W] | N/0 contact 0.2 ±0.1 ≤0.6 ≤0.05 100 500 1 | | | | |
| Switching output Switching element function Repetition accuracy Reproducibility of switching value Switch-on time Switch-off time Max. output current Max. switching frequency Max. switching capacity DC Voltage drop | [mm] [ms] [ms] [mA] [Hz] [W] | N/0 contact 0.2 ±0.1 ≤0.6 ≤0.05 100 500 1 | | | | |

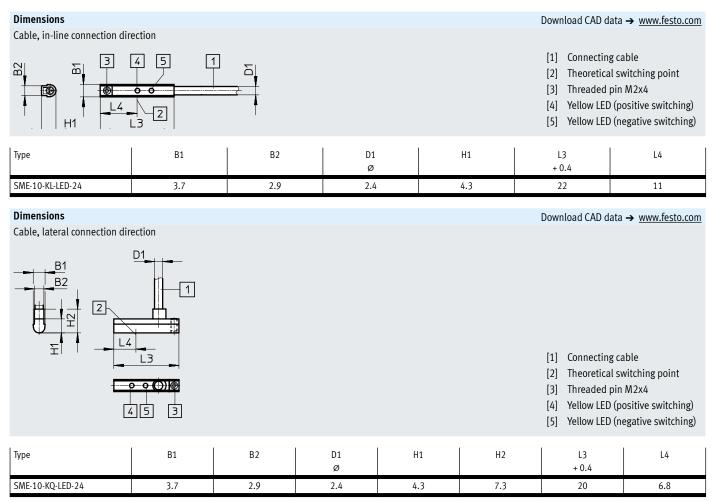
Electronics

| Operating voltage range DC | [V] | 12 27 |
|-----------------------------|-----|-------|
| Operating voltage range AC | [V] | 12 27 |
| Reverse polarity protection | | No |
| | | |

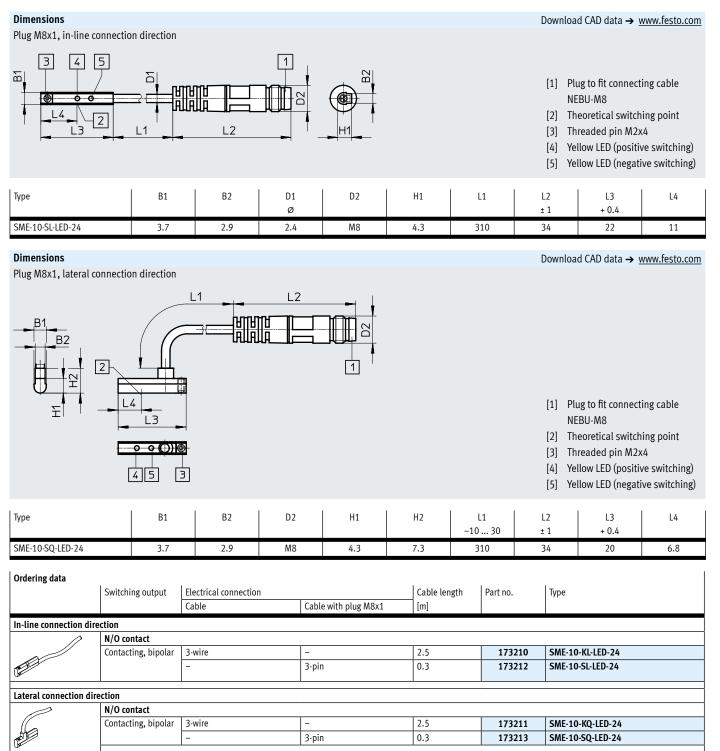
Data sheet – Magnetic reed

| Electromechanical components | | | | | | |
|--|------|--|---------------------------------|--|--|--|
| Туре | | SME-10K | SME-10S | | | |
| Electrical connection 1 | | | | | | |
| Function | | Switching output, power supply | | | | |
| Connection type | | Cable | Cable with plug | | | |
| Connection technology | | Open end | M8x1, A-coded to EN 61076-2-104 | | | |
| Number of pins/wires | | 3 | | | | |
| Outlet direction of connection | | In-line, lateral | In-line, lateral | | | |
| Cable length | [m] | 2.5 | 0.3 | | | |
| Information on materials: cable sheath | | TPE-U (PUR) | ÷ | | | |
| Cable sheath colour | | Grey | | | | |
| | | | | | | |
| Mechanical components | | | | | | |
| Туре | | SME-10K | SME-10S | | | |
| Type of mounting | | Clamped in C-slot, insertable in the s | lot lengthwise | | | |
| Tightening torque | [Nm] | 0.18 | | | | |
| Information on materials: housing | | PPS, | PPS, | | | |
| | | high-alloy stainless steel | TPE-U(PU) | | | |
| | | | High-alloy stainless steel | | | |
| | | | Nickel-plated brass | | | |
| Housing colour | | Black | | | | |
| | | | | | | |
| Display/operation | | | | | | |
| Switching status indication | | Yellow LED | | | | |
| - | | | | | | |
| Immission/emission | | | | | | |
| Ambient temperature with | [°C] | -5 +70 | | | | |
| flexible cable installation | [0] | 5 | | | | |
| Degree of protection | | IP65 | | | | |
| | | IP67 | | | | |
| Insulation voltage | [V] | 50 | | | | |
| Surge resistance | [kV] | 0.8 | | | | |
| Pollution degree | | 3 | | | | |
| PWIS conformity | | VDMA24364-B2-L | | | | |
| -1 | | | | | | |
| Pin allocation to EN 60947-5-2 | | | | | | |
| Plug, 3-pin, M8x1 | | | | | | |
| | | Pin Wire colour | Allocation | | | |
| | | | Autoration | | | |
| Port pattern | | | | | | |
| | | 1 Brown | + | | | |
| Port pattern | | 1 Brown 3 Blue 4 Black | + - Output | | | |

Data sheet - Magnetic reed



Data sheet - Magnetic reed



Accessories

| Accessories | | | | | |
|--|--|-----|-----|----|--------------------|
| Mounting SMBN-10 for mounting proxin SME/SMT-10 on driv Material: Rail: anodised wrou alloy Screws: high-alloy s Note on materials: Free of copper and D RoHS-compliant | nity sensors ves with T-slot ught aluminium stainless steel | No. | | | |
| Dimensions and ord | | 54 | 1 1 | | |
| For piston Ø | D1 | B1 | H1 | L1 | ≓©1 Part no. Type |
| 125 320 | M3 | 9.3 | 8.6 | 19 | 1.5 537809 SMBN-10 |
| Positioning elemen insertable in the slo Ambient temperatu Materials: Housing: anodised alloy Screws: high-alloy s Note on materials: RoHS-compliant | ot lengthwise rre: –40 +120°C wrought aluminiun | 1 | | | |

Dimensions and ordering data

| Dimensions and ordering data | | | | | | | | | |
|------------------------------|-----|-------|-----|-----|-----|-------------------|----------|--------|------------------|
| B1 | D1 | H1 | H2 | L1 | =©1 | CRC ¹⁾ | Part no. | Туре | PU ²⁾ |
| 3.75 | 3.0 | 12.23 | 7.6 | 4.0 | 1.5 | 3 | 547942 | SMM-10 | 10 |

1) Corrosion resistance class CRC 3 to Festo standard FN 940070

High corrosion stress. Outdoor exposure under moderate corrosive conditions. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment.

2) Packaging unit

Accessories

Ordering data – Connecting cables

| | | | | | Data sheets → Internet: nebu | | | | |
|--------------------|--------------------|-----------------|------------------|----------|------------------------------|--|--|--|--|
| | Туре | Number of wires | Cable length [m] | Part no. | Туре | | | | |
| Socket M8x1, 3-pin | Socket M8x1, 3-pin | | | | | | | | |
| | For SMT/SME-10 | 3 | 2.5 | ★ 541333 | NEBU-M8G3-K-2.5-LE3 | | | | |
| OF THE S | | | 5 | ★ 541334 | NEBU-M8G3-K-5-LE3 | | | | |
| | For SMT/SME-10 | 3 | 2.5 | ★ 541338 | NEBU-M8W3-K-2.5-LE3 | | | | |
| | | | 5 | ★ 541341 | NEBU-M8W3-K-5-LE3 | | | | |

| Ordering data – Mounting components | | | | |
|-------------------------------------|-------|--|----------|---------------|
| | For Ø | Description | Part no. | Туре |
| | 6 | Mounting kit for mounting proximity sensors on semi-rotary drive DSM | 173205 | WSM-6-SME-10 |
| | 8 | | 173206 | WSM-8-SME-10 |
| and the second | 10 | | 173207 | WSM-10-SME-10 |
| | - | For fixing connecting cables in place | 534255 | SMBK-10 |

Ordering data – Safety clips for ATEX zone

| ordering data – Safety tups for Arex 20he | | | | | |
|---|------|--|----------|-------------|------------------|
| | Size | Description | Part no. | Туре | PU ¹⁾ |
| 6 7 F | M8 | Protects "equipment that is not intrinsically safe" in zones 2 and 22 against simple disconnection | 548067 | NEAU-M8-GD | 1 |
| | M12 | ATEX category: gas: II 3G / dust: II 3D | 548068 | NEAU-M12-GD | 1 |

1) Packaging unit

Ordering data – Sensor tester

| Description | Part no. | Туре |
|---|----------|-----------|
| Testing the functionality of proximity sensors using the integrated voltage supply Adjusting the proximity sensors on the cylinder | 158481 | SM-TEST-1 |

| Ordering | Ordering data – Inscription labels | | | | |
|----------|------------------------------------|---------|----------|------------|------------------|
| | | Size | Part no. | Туре | PU ¹⁾ |
| | \triangleright | 23x4 mm | 541598 | ASLR-L-423 | 34 |

1) Packaging unit

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