

## Proximity switches for T-slot

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## Product range overview

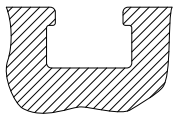
| Design                                         | Type of mounting                                                 | Measuring principle | Type         | Operating voltage range | Switching output       | Switching element function      | → Page      |   |
|------------------------------------------------|------------------------------------------------------------------|---------------------|--------------|-------------------------|------------------------|---------------------------------|-------------|---|
| For T-slot                                     | Standard                                                         |                     |              |                         |                        |                                 |             |   |
|                                                | Screw-clamped, inserted in the slot from above                   | Magnetic Hall       | SDBT-MSX     | 10 ... 30 V DC          | PNP/NPN, switchable    | N/O/<br>N/C contact, switchable | –           |   |
|                                                | Inserted in the slot from above, flush with the cylinder profile | Magneto-resistive   | SMT-8M-A     | 5 ... 30 V DC           | PNP                    | N/O contact                     | –           |   |
|                                                |                                                                  |                     |              |                         |                        | N/C contact                     |             |   |
|                                                |                                                                  |                     |              |                         | NPN                    | N/O contact                     |             |   |
|                                                |                                                                  |                     |              |                         | Non-contacting, 2-wire | N/O contact                     |             |   |
|                                                | Inserted in the slot from above, flush with the cylinder profile | Magnetic reed       | SME-8M       | 5 ... 30 V AC/DC        | Contacting, bipolar    | N/O contact<br>N/C contact      | –           |   |
|                                                | Inserted in the slot lengthwise, flush with the cylinder profile | Magnetic reed       | SME-8        | 12 ... 30 V AC/DC       | Contacting, bipolar    | N/O contact<br>N/C contact      | –           |   |
|                                                |                                                                  |                     |              | 3 ... 230 V AC/DC       |                        | N/O contact                     | –           |   |
|                                                | Inserted in the slot lengthwise                                  | Magneto-resistive   | SMT-8G       | 10 ... 30 V DC          | PNP, NPN               | N/O contact                     | 11          |   |
|                                                |                                                                  | Magneto-resistive   | SMT-8-SL     | 10 ... 30 V DC          | PNP                    | N/O contact                     | 7           |   |
|                                                |                                                                  | Magnetic reed       | SME-8-SL     | 10 ... 30 V AC/DC       | Contacting, bipolar    | N/O contact                     | –           |   |
|                                                | With accessories                                                 | Magneto-resistive   | SMT-8E       | 10 ... 30 V DC          | PNP                    | N/O contact                     | –           |   |
|                                                |                                                                  |                     |              |                         | NPN                    |                                 |             |   |
|                                                |                                                                  | Magnetic reed       | SME-8E       | 12 ... 30 V DC          | Contacting, bipolar    | N/O contact                     | –           |   |
|                                                |                                                                  |                     |              | 3 ... 250 V DC          |                        |                                 |             |   |
|                                                |                                                                  |                     |              | 3 ... 230 V AC          |                        |                                 |             |   |
|                                                | Corrosion-resistant                                              |                     |              |                         |                        |                                 |             |   |
|                                                | Inserted in the slot from above, flush with the cylinder profile | Magneto-resistive   | CRSMT-8M     | 5 ... 30 V DC           | PNP                    |                                 | N/O contact | – |
|                                                | Welding-field-resistant                                          |                     |              |                         |                        |                                 |             |   |
|                                                | Inserted in the slot from above, screw-clamped                   | Magneto-resistive   | SDBT-BSW     | 10 ... 30 V DC          | PNP                    | N/O contact                     | –           |   |
|                                                |                                                                  |                     |              |                         | NPN                    |                                 |             |   |
|                                                |                                                                  |                     |              |                         | Non-contacting, 2-wire |                                 |             |   |
|                                                | With accessories                                                 | Magneto-inductive   | SMTSO-8E     | 10 ... 30 V DC          | PNP<br>NPN             | N/O contact                     | –           |   |
|                                                | Heat-resistant up to 120°C                                       |                     |              |                         |                        |                                 |             |   |
|                                                | Inserted in the slot lengthwise, flush with the cylinder profile | Magnetic reed       | SME-8-...S6  | 0 ... 30 V AC/DC        | Contacting, bipolar    |                                 | N/O contact | – |
|                                                | With accessories                                                 | Magnetic reed       | SME-8E-...S6 | 0 ... 30 V DC           | Contacting             | N/O contact                     | –           |   |
|                                                |                                                                  |                     |              | 0 ... 30 V AC           |                        |                                 |             |   |
|                                                | To EU Explosion Protection Directive (ATEX)                      |                     |              |                         |                        |                                 |             |   |
| Inserted in the slot from above, screw-clamped | Magneto-resistive                                                | SDBT-MS-...-EX6     | 8.2 V DC     | NAMUR                   |                        | NAMUR                           | –           |   |

## Product range overview

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

## T-slot switches can be used for drives with T-slot

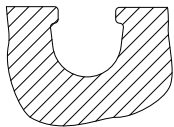
## Exceptions



- DFM-B: SMT-8E, SMT-8G, SME-8E and SMPO-8E cannot be used
- DHDS: SME-8M can only be used on  $\varnothing 50$
- DHPS: SME-8M can only be used on  $\varnothing 20 \dots 35$
- HGDD-63-A: SMT-8M-A cannot be used
- HGPT-B: only SMT-8G can be used from size 40 and upwards
- SDBT-BSW- ... -PU/NU can only be used on a limited number of drive series. Page → 53

## C-slot switches can be used for drives with C-slot

## Exceptions



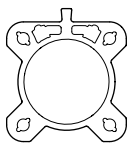
- ADV  $\varnothing 100$ : SMT-10M and SME-10M cannot be used (ADV has a T-slot and C-slot)
- DSM/DSM-B-6/8/10: SME-10M cannot be used
- DSM/DSM-B-10/16: SMT-10M cannot be used
- HGPT-B: only SMT-10G can be used for sizes up to and including size 35

## For drives with sensor rail: these are available with 2 cylinder barrel contours

Only T-slot switches CRSMT-8M, SMT-8M-A and SDBT-MS- ... -EX6 can be used, and only with the identified profile.

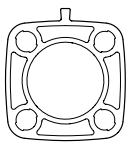
CRSMT-8M and SMT-8M-A can be used for all diameters; SDBT-MS- ... -EX6 cannot be used for diameters 40 and 50.

Example: DSBF



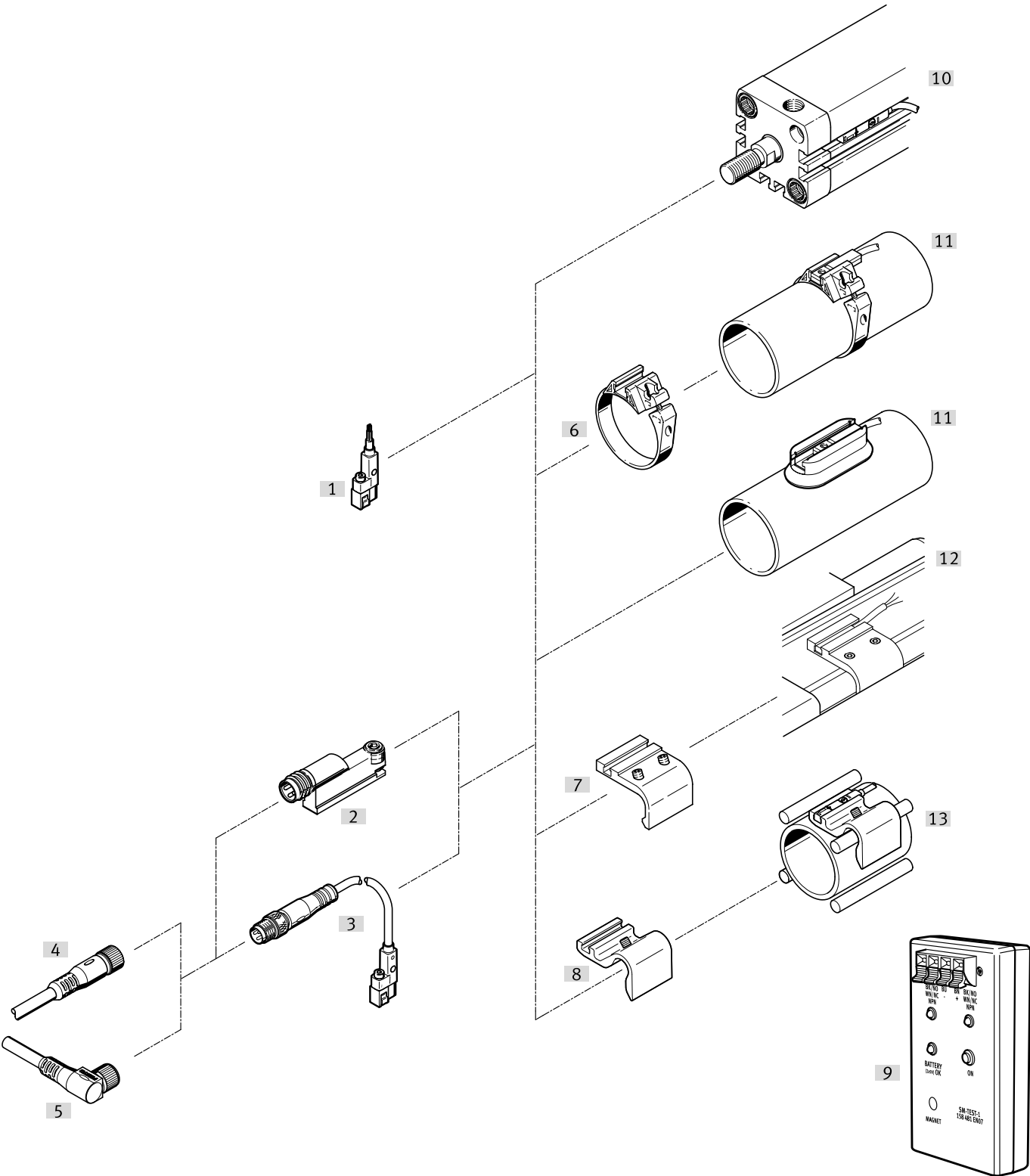
Suitable

Example: CDC



Not suitable

Peripherals overview



## Peripherals overview

| Mounting components and accessories |                                      | → Page | Mounting components and accessories  |                                 | → Page |
|-------------------------------------|--------------------------------------|--------|--------------------------------------|---------------------------------|--------|
| <b>Proximity switches</b>           |                                      |        | <b>Mounting kits and accessories</b> |                                 |        |
| [1]                                 | SMT-8G-...-OE, with cable            | 11     | [6]                                  | Mounting kit SMBR               | 14     |
| [2]                                 | SMT-8-SL-..., with plug              | 7      | [7]                                  | Mounting kit SMB-8-FENG         | 14     |
| [3]                                 | SMT-8G-...-M..., with cable and plug | 11     | [8]                                  | Sensor bracket DASP-M4-...      | 15     |
|                                     |                                      |        | [9]                                  | Sensor tester SM-TEST-1         | 16     |
|                                     |                                      |        | –                                    | Positioning element SMM-8       | 15     |
|                                     |                                      |        | –                                    | Clip SMBK-8                     | 16     |
|                                     |                                      |        | –                                    | Inscription label ASLR          | 16     |
|                                     |                                      |        | –                                    | Safety clip NEAU                | 16     |
|                                     |                                      |        |                                      |                                 |        |
| <b>Connecting cables</b>            |                                      |        | <b>Drives</b>                        |                                 |        |
| [4]                                 | NEBU-M...G...                        | 16     | [10]                                 | Drives with T-slot              | –      |
| [5]                                 | NEBU-M...W...                        | 16     | [11]                                 | Round cylinder                  | –      |
|                                     |                                      |        | [12]                                 | Standards-based cylinder DSBC   | –      |
|                                     |                                      |        | [13]                                 | Drives with tie or mounting rod | –      |

## Type codes

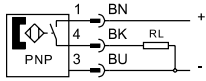
|     |                                                                |  |
|-----|----------------------------------------------------------------|--|
| 001 | Series                                                         |  |
| SMT | Proximity sensor                                               |  |
| 002 | Design type                                                    |  |
| 8   | For T-slot                                                     |  |
| 003 | Sensor version                                                 |  |
| G   | Inserted in the slot lengthwise, optimised for gripper sensing |  |
| SL  | Inserted in the slot lengthwise, sturdy due to long guides     |  |
| 004 | Switching output                                               |  |
| NS  | 3-wire NPN N/O contact                                         |  |
| PS  | 3-wire PNP N/O contact                                         |  |
| 005 | Display                                                        |  |
|     | None                                                           |  |
| L   | LED                                                            |  |
| 006 | Rated operating voltage                                        |  |
| 24  | 24 V DC                                                        |  |
| 24V | 24 V                                                           |  |

|     |                                               |  |
|-----|-----------------------------------------------|--|
| 007 | Cable characteristic                          |  |
|     | None                                          |  |
| E   | Suitable for energy chains/robot applications |  |
| 008 | Cable length [m]                              |  |
| 0.3 | 0.3                                           |  |
| 2.5 | 2.5                                           |  |
| 009 | Cable outlet                                  |  |
| Q   | Transverse                                    |  |
| 010 | Electrical connection                         |  |
| OE  | Open end                                      |  |
| M8D | Cable with M8x1 plug, 3-pin, rotatable thread |  |
| 011 | Generation                                    |  |
|     | None                                          |  |
| B   | Series B                                      |  |

## Data sheet – Magneto-resistive

Function

PNP, N/O contact, with plug



- Magneto-resistive measuring principle
- Inserted in the slot lengthwise

### SMT-8-SL

- Sturdy thanks to long guides
- Plug directly on the sensor



| General technical data                                     |                                                                        |
|------------------------------------------------------------|------------------------------------------------------------------------|
| Type                                                       | SMT-8-SL                                                               |
| Switching output                                           | PNP                                                                    |
| Design                                                     | For T-slot                                                             |
| Conforms to standard                                       | –                                                                      |
| Based on standard                                          | EN 60947-5-2                                                           |
| Certification                                              | RCM compliance mark<br>c UL us listed (OL)                             |
| CE marking (see declaration of conformity)                 | To EU EMC Directive<br>To EU RoHS Directive                            |
| UKCA marking (see declaration of conformity) <sup>1)</sup> | To UK instructions for EMC<br>To UK RoHS instructions                  |
| Certificate-issuing authority                              | UL E232949                                                             |
| Application information                                    | Support / Actuator-sensor overview “The right sensor for the actuator” |
| Note on materials                                          | RoHS-compliant                                                         |
| PWIS conformity                                            | VDMA24364-B2-L                                                         |

<sup>1)</sup> For information about the area of use, see the declaration of conformity at: [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

| Input signal/measuring element |                   |
|--------------------------------|-------------------|
|                                | SMT-8-SL          |
| Measuring principle            | Magneto-resistive |
| Ambient temperature [°C]       | –20 ... +70       |

| Switching output                        |             |
|-----------------------------------------|-------------|
| Type                                    | SMT-8-SL    |
| Switching output                        | PNP         |
| Switching output                        | PNP         |
| Switching element function              | N/O contact |
| Reproducibility of switching value [mm] | –           |
| Switch-on time [ms]                     | ≤ 1         |
| Switch-off time [ms]                    | 3 ... 5     |
| Max. switching frequency [Hz]           | 140         |
| Max. output current [mA]                | 100         |
| Max. switching capacity DC [W]          | 3           |
| Voltage drop [V]                        | ≤ 2         |
| Off-state current [µmA]                 | ≤ 1.5       |

| Output, additional data      |          |
|------------------------------|----------|
| Type                         | SMT-8-SL |
| Switching output             | PNP      |
| Short circuit current rating | Yes      |
| Overload protection          | Provided |

Data sheet – Magneto-resistive

|                             |                                |           |
|-----------------------------|--------------------------------|-----------|
| <b>Electronics</b>          |                                |           |
| Type                        | SMT-8-SL                       |           |
| Switching output            | PNP                            |           |
| Rated operating voltage     | [V DC]                         | 24        |
| Operating voltage range     | [V DC]                         | 10 ... 30 |
| Reverse polarity protection | For all electrical connections |           |

|                                        |                                 |
|----------------------------------------|---------------------------------|
| Electromechanics                       |                                 |
| Type                                   | SMT-8-SL                        |
| Switching output                       | PNP                             |
| Electrical connection                  |                                 |
| Connection type                        | Plug                            |
| Connection technology                  | M8x1, A-coded to EN 61076-2-104 |
| Number of pins/wires                   | 3                               |
| Outlet direction of connection         | In-line                         |
| Cable length [m]                       | –                               |
| Information on materials: Cable sheath | –                               |

|                                   |                                 |
|-----------------------------------|---------------------------------|
| Mechanics                         |                                 |
| Type                              | SMT-8-SL                        |
| Switching output                  | PNP                             |
| Electrical connection             | Plug M8x1, 3-pin                |
| Type of mounting                  | Screw-clamped                   |
|                                   | Inserted in the slot lengthwise |
| Information on materials: Housing | PA                              |
|                                   | —                               |

|                             |            |  |
|-----------------------------|------------|--|
| <b>Display/operation</b>    |            |  |
| Switching status indication | Yellow LED |  |

|                                                      |          |   |
|------------------------------------------------------|----------|---|
| <b>Immission/emission</b>                            |          |   |
| Type                                                 | SMT-8-SL |   |
| Ambient temperature with flexible cable installation | [°C]     | – |
| Degree of protection                                 | IP65     |   |
|                                                      | IP68     |   |
|                                                      | –        |   |
| Insulation voltage                                   | [V]      | – |
| Pollution degree                                     | –        |   |

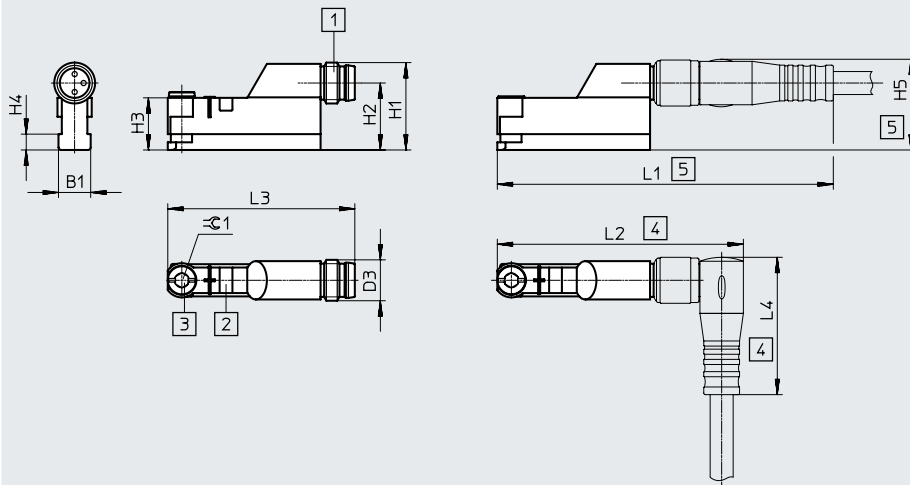
|                                                                                    |     |             |            |
|------------------------------------------------------------------------------------|-----|-------------|------------|
| <b>Pin allocation to EN 60947-5-2</b>                                              |     |             |            |
| PS/NS                                                                              |     |             |            |
| Plug, 3-pin                                                                        |     |             |            |
| M8x1                                                                               | Pin | Wire colour | Allocation |
|  | 1   | Brown       | +          |
|                                                                                    | 3   | Blue        | –          |
|                                                                                    | 4   | Black       | Output     |
|                                                                                    |     |             |            |



## Data sheet – Magneto-resistive

## Dimensions

SMT-8-SL

Download CAD data → [www.festo.com](http://www.festo.com)

- [1] Plug to fit connecting cable NEBU-M8
- [2] Yellow light emitting diode
- [3] Clamping element
- [4] Installation space for connecting cable NEBU-M8W3
- [5] Installation space for connecting cable NEBU-M8G3

| Type     | B1  | B2 | D1 | D3   | H1   | H2   | H3   | H4  | H5   | L1 | L2   | L3   | L4 |
|----------|-----|----|----|------|------|------|------|-----|------|----|------|------|----|
| SMT-8-SL | 6.7 | –  | –  | M8x1 | 17.1 | 13.1 | 10.2 | 3.1 | 17.6 | 66 | 48.4 | 36.6 | 25 |

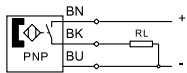
Data sheet – Magneto-resistive

| Ordering data                                                                    |                  |                       |                 |           |              |          |                      |
|----------------------------------------------------------------------------------|------------------|-----------------------|-----------------|-----------|--------------|----------|----------------------|
|                                                                                  | Switching output | Electrical connection |                 |           | Cable length | Part no. | Type                 |
|                                                                                  |                  | Cable                 | Cable with plug | Plug M8x1 | [m]          |          |                      |
|                                                                                  |                  |                       | M8x1            |           |              |          |                      |
| N/O contact, basic version                                                       |                  |                       |                 |           |              |          |                      |
|  | PNP              | –                     | –               | 3-pin     | –            | 562019   | SMT-8-SL-PS-LED-24-B |

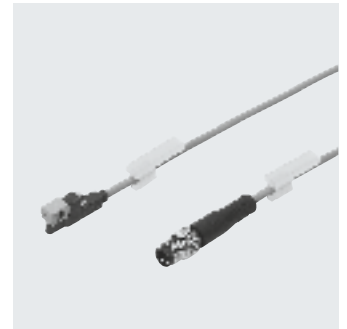
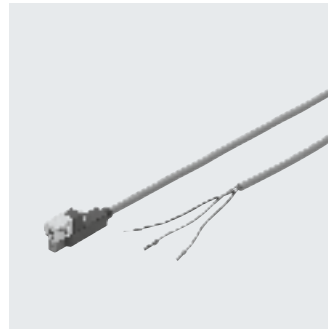
## Data sheet – Magneto-resistive

### Function

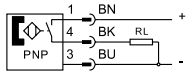
PNP, N/O contact, with cable, 3-wire



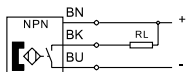
- Magneto-resistive measuring principle
- Inserted in the slot lengthwise
- Design ideal for gripper sensing



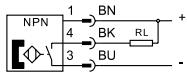
PNP, N/O contact, with plug



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



NPN, N/O contact, with plug



| General technical data                                     | SMT-8G-...-OE                                                                                                                                                                                                             | SMT-8G-...-M8D |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Design                                                     | For T-slot                                                                                                                                                                                                                |                |
| Mounting position                                          | Any                                                                                                                                                                                                                       |                |
| Based on standard                                          | EN 60947-5-2                                                                                                                                                                                                              |                |
| Certification                                              | RCM compliance mark<br>c UL us listed (OL)                                                                                                                                                                                |                |
| CE marking (see declaration of conformity)                 | To EU EMC Directive<br>To EU RoHS Directive                                                                                                                                                                               |                |
| KC marking                                                 | KC EMC                                                                                                                                                                                                                    |                |
| UKCA marking (see declaration of conformity) <sup>1)</sup> | To UK instructions for EMC<br>To UK RoHS instructions                                                                                                                                                                     |                |
| Certificate-issuing authority                              | UL E232949                                                                                                                                                                                                                |                |
| Application information                                    | Support / Actuator-sensor overview "The right sensor for the actuator"                                                                                                                                                    |                |
| Suitable for the production of lithium-ion batteries       | Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils | –              |
| Cleanroom class                                            | Class 4 to ISO 14644-1                                                                                                                                                                                                    | –              |
| Note on materials                                          | RoHS-compliant                                                                                                                                                                                                            |                |
| PWIS conformity                                            | VDMA24364-B2-L                                                                                                                                                                                                            |                |

1) For information about the area of use, see the declaration of conformity at: [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

| Input signal/measuring element |                   |
|--------------------------------|-------------------|
| Measured variable              | Position          |
| Measuring principle            | Magneto-resistive |
| Ambient temperature [°C]       | –20 ... +70       |

## Data sheet – Magneto-resistive

| Switching output             |      | PNP                         | NPN |
|------------------------------|------|-----------------------------|-----|
| Switching element function   |      | N/O contact                 |     |
| Voltage drop                 | [V]  | ≤ 2                         |     |
| Inductive protective circuit |      | Adapted to MZ, MY, ME coils |     |
| Max. output current          | [mA] | 100                         |     |
| Residual current             | [mA] | ≤ 0.01                      |     |
| Switch-on time               | [ms] | ≤ 1                         |     |
| Switch-off time              | [ms] | ≤ 1                         |     |
| Repetition accuracy          | [mm] | 0.2                         |     |
| Max. switching frequency     | [Hz] | 150                         |     |
| Max. switching capacity DC   | [W]  | 2.8                         |     |

| Output, additional data      |  |          |
|------------------------------|--|----------|
| Short circuit current rating |  | Yes      |
| Overload protection          |  | Provided |

| Electronics                 |        |                                |
|-----------------------------|--------|--------------------------------|
| Operating voltage range     | [V DC] | 10 ... 30                      |
| Rated operating voltage     | [V DC] | 24                             |
| Residual ripple             | [%]    | 10                             |
| Reverse polarity protection |        | For all electrical connections |

| Electromechanics               |                                                                      |                                 |
|--------------------------------|----------------------------------------------------------------------|---------------------------------|
| Type                           | SMT-8G-...-OE                                                        | SMT-8G-...-M8D                  |
| Electrical connection          |                                                                      |                                 |
| Connection type                | Cable                                                                | Cable with plug                 |
| Connection technology          | Open end                                                             | M8x1, A-coded to EN 61076-2-104 |
| Number of pins/wires           | 3                                                                    | 3                               |
| Type of mounting               | –                                                                    | Screw-type lock                 |
| Outlet direction of connection | Lateral                                                              |                                 |
| Cable test conditions          | Cable chain: 5 million cycles, bending radius 28 mm                  |                                 |
|                                | Torsional resistance: > 300,000 cycles, ±270°/0.1 m                  |                                 |
|                                | Resistance to bending: to Festo standard; test conditions on request |                                 |
| Cable length                   | [m]                                                                  | 2.5 0.3                         |
| Cable characteristic           | Suitable for energy chains and robot applications                    |                                 |
| Material of cable sheath       | TPE-U(PU)                                                            |                                 |
| Cable sheath colour            | Grey                                                                 |                                 |
| Material of pin contacts       | –                                                                    | Gold-plated brass               |
| Wire ends                      | Wire end sleeve                                                      | –                               |

| Mechanics              |      | SMT-8G-...-OE                                        | SMT-8G-...-M8D      |
|------------------------|------|------------------------------------------------------|---------------------|
| Type of mounting       |      | Clamped in C-slot                                    |                     |
|                        |      | Insertable in the slot lengthwise                    |                     |
| Max. tightening torque | [Nm] | 0.8                                                  |                     |
| Housing material       |      | Aluminium, high-alloy stainless steel, reinforced PA |                     |
| Housing colour         |      | Black                                                |                     |
| Union nut material     |      | –                                                    | Nickel-plated brass |
| Product weight         | [g]  | 30                                                   | 10                  |

| Display/operation           |  |            |
|-----------------------------|--|------------|
| Switching status indication |  | Yellow LED |

| Immission/emission                                   |      |            |
|------------------------------------------------------|------|------------|
| Ambient temperature with flexible cable installation | [°C] | –5 ... +70 |
| Degree of protection                                 |      | IP65       |
|                                                      |      | IP68       |

## Data sheet – Magneto-resistive

## Pin allocation to EN 60947-5-2

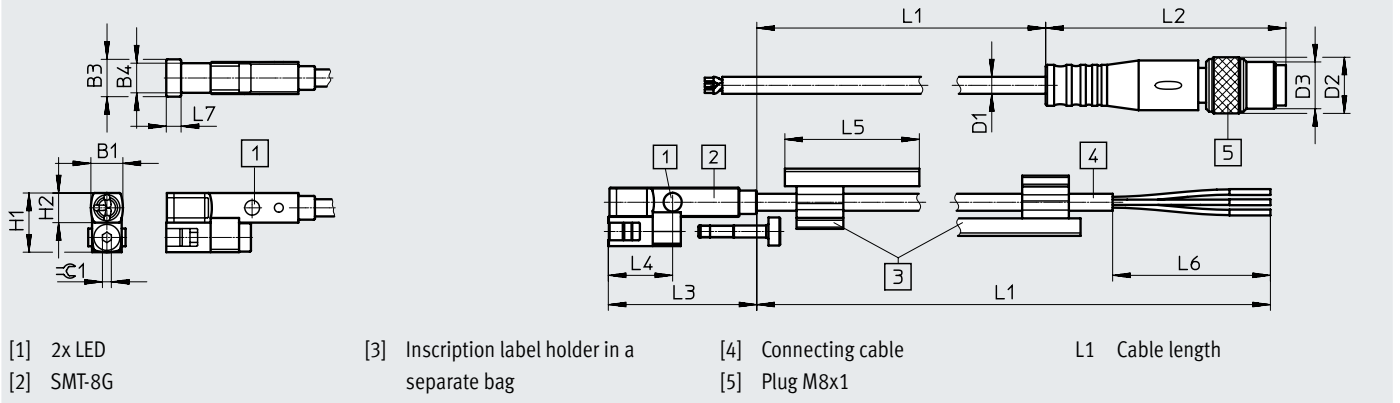
PS

Plug, 3-pin

M8x1

|                                                                                   | Pin | Wire colour | Allocation |
|-----------------------------------------------------------------------------------|-----|-------------|------------|
|  | 1   | Brown       | +          |
|                                                                                   | 3   | Blue        | -          |
|                                                                                   | 4   | Black       | Output     |

## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

|                   | B1  | B2 | B3  | B4 | D1<br>Ø | D2<br>Ø | D3   | H1 | H2 | L1        | L2<br>±0.4 | L3<br>±0.3 | L4   | L5 | L6<br>+5 | L7  | ±1  |
|-------------------|-----|----|-----|----|---------|---------|------|----|----|-----------|------------|------------|------|----|----------|-----|-----|
| SMT-8G-PS-...-OE  | 5.4 | 5  | 6.3 | 5  | 2.9     | -       | -    | 10 | 5  | 2500 + 70 | -          | 25         | 10.8 | 23 | 50       | 2.5 | 1.5 |
| SMT-8G-PS-...-M8D |     |    |     |    |         | 9.6     | M8x1 |    |    | 300 + 30  | 41.1       |            |      |    | -        |     |     |
| SMT-8G-NS-...-OE  |     |    |     |    |         | -       | -    |    |    | 2500 + 70 | -          |            |      |    | 50       |     |     |
| SMT-8G-NS-...-M8D |     |    |     |    |         | 9.6     | M8x1 |    |    | 300 + 30  | 41.1       |            |      |    | -        |     |     |

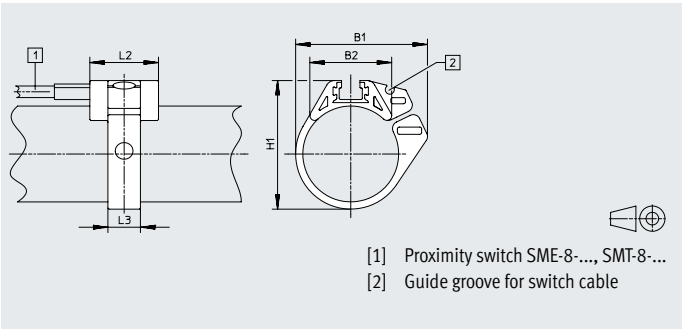
## Ordering data

|                                                                                     | Switching output | Electrical connection<br>Cable | Cable with plug,<br>rotatable thread<br>M8x1 | Cable length<br>[m] | Part no. | Type                     |
|-------------------------------------------------------------------------------------|------------------|--------------------------------|----------------------------------------------|---------------------|----------|--------------------------|
|  | PNP              | 3-wire                         | -                                            | 2.5                 | 547859   | SMT-8G-PS-24V-E-2.5Q-OE  |
|                                                                                     |                  | -                              | 3-pin                                        | 0.3                 | 547860   | SMT-8G-PS-24V-E-0.3Q-M8D |
|                                                                                     | NPN              | 3-wire                         | -                                            | 2.5                 | 8065028  | SMT-8G-NS-24V-E-2.5Q-OE  |
|                                                                                     |                  | -                              | 3-pin                                        | 0.3                 | 8065027  | SMT-8G-NS-24V-E-0.3Q-M8D |

Accessories

Mounting kit SMBR

Material:  
Polyacetal  
RoHS-compliant

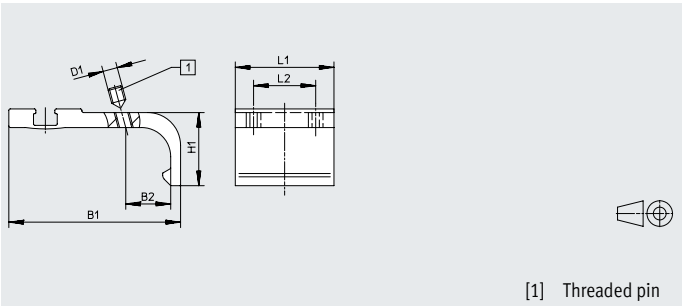
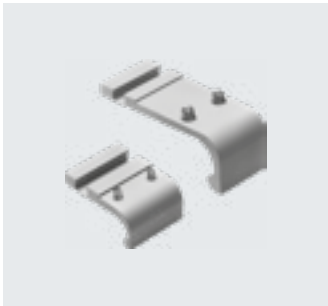


[1] Proximity switch SME-8-..., SMT-8-...  
[2] Guide groove for switch cable

| Dimensions and ordering data |      |      |      |    |    |          |           |
|------------------------------|------|------|------|----|----|----------|-----------|
| For piston ø                 | B1   | B2   | H1   | L2 | L3 | Part no. | Type      |
| 8                            | 18.9 | 12.3 | 17.5 | 19 | 7  | 175091   | SMBR-8-8  |
| 10                           | 20.4 | 13.7 | 19.9 | 19 | 7  | 175092   | SMBR-8-10 |
| 12                           | 22.7 | 14.3 | 21.9 | 19 | 7  | ★ 175093 | SMBR-8-12 |
| 16                           | 28.2 | 16.9 | 25.7 | 19 | 8  | ★ 175094 | SMBR-8-16 |
| 20                           | 34.5 | 20.8 | 30.4 | 19 | 9  | ★ 175095 | SMBR-8-20 |
| 25                           | 36.7 | 22.7 | 35.6 | 19 | 9  | ★ 175096 | SMBR-8-25 |
| 32                           | 41.7 | 24.6 | 42.7 | 19 | 9  | 175097   | SMBR-8-32 |
| 40                           | 47.1 | 26.5 | 50.7 | 19 | 9  | 175098   | SMBR-8-40 |
| 50                           | 56.4 | 28.6 | 61.5 | 19 | 9  | 175099   | SMBR-8-50 |
| 63                           | 69.4 | 32   | 74.5 | 19 | 9  | 175100   | SMBR-8-63 |

Mounting kit  
SMB-8-FENG

Material:  
Wrought aluminium alloy  
Free of copper and PTFE



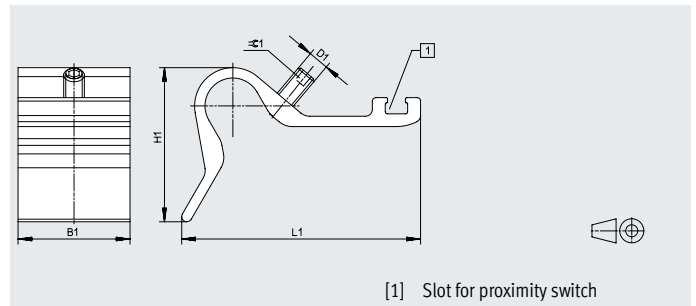
[1] Threaded pin

| Dimensions and ordering data |      |      |    |      |    |    |                        |          |                   |
|------------------------------|------|------|----|------|----|----|------------------------|----------|-------------------|
| For piston ø                 | B1   | B2   | D1 | H1   | L1 | L2 | Tightening torque [Nm] | Part no. | Type              |
| 32/40                        | 35.1 | 8.7  | M3 | 15.5 | 27 | 17 | 0.2                    | 175705   | SMB-8-FENG-32/40  |
| 50/63                        | 47   | 12.3 | M4 | 20   | 27 | 17 | 0.5                    | 175706   | SMB-8-FENG-50/63  |
| 80/100                       | 64.3 | 15.7 | M5 | 24.3 | 27 | 17 | 0.7                    | 175707   | SMB-8-FENG-80/100 |

## Accessories

### Sensor bracket DASP-M4-...-A

Material:  
Anodised wrought aluminium alloy  
Screws: High-alloy stainless steel  
RoHS-compliant



| Dimensions and ordering data |      |    |      |      |             |                        |                   |            |          |               |
|------------------------------|------|----|------|------|-------------|------------------------|-------------------|------------|----------|---------------|
| Type                         | B1   | D1 | H1   | L1   | $\approx 1$ | Tightening torque [Nm] | CRC <sup>1)</sup> | Weight [g] | Part no. | Type          |
| DASP-M4-125-A                | 32.5 | M5 | 28   | 45.4 | 2.5         | 1                      | 3                 | 26.5       | 1451483  | DASP-M4-125-A |
| DASP-M4-160-A                | 32.5 | M6 | 44.7 | 69.4 | 3           | 1                      | 3                 | 41.5       | 1553813  | DASP-M4-160-A |
| DASP-M4-250-A                | 32.5 | M6 | 56.3 | 88   | 3           | 1                      | 3                 | 60         | 1456781  | DASP-M4-250-A |
| DASP-M4-320-A                | 32.5 | M6 | 56.3 | 88   | 3           | 1                      | 3                 | 60         | 3015256  | DASP-M4-320-A |

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

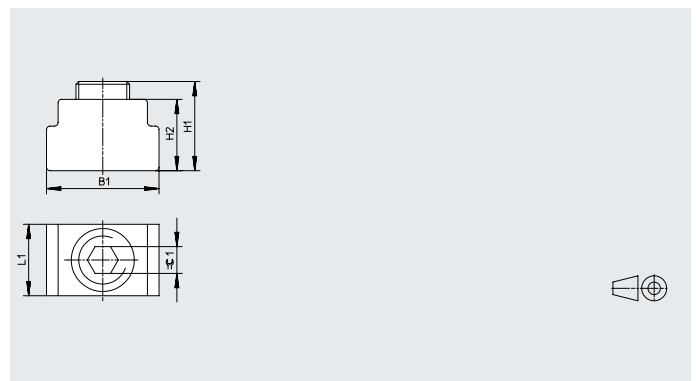
High corrosion stress. Outdoor exposure under moderate corrosive conditions. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment.

### Positioning element SMM

Inserted in the slot lengthwise

Ambient temperature:  $-40 \dots +120^{\circ}\text{C}$

Materials:  
Housing: Anodised wrought aluminium alloy  
Screws: High-alloy stainless steel  
Note on materials: RoHS-compliant



| Dimensions and ordering data |     |     |     |             |                   |          |       |                  |  |
|------------------------------|-----|-----|-----|-------------|-------------------|----------|-------|------------------|--|
| B1                           | H1  | H2  | L1  | $\approx 1$ | CRC <sup>1)</sup> | Part no. | Type  | PU <sup>2)</sup> |  |
| 6.3                          | 5.0 | 4.0 | 4.0 | 1.5         | 3                 | 547941   | SMM-8 | 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 |          |                      |
|----------------------------------------------------------------------------------|-----------------------------------------|-----------------|------------------------------|----------|----------------------|
|                                                                                  |                                         | Number of wires | Cable length [m]             | Part no. | Type                 |
| Socket M8x1, 3-pin                                                               |                                         |                 |                              |          |                      |
|  | For SMT/SME-8... and SMT0/SMTSO/SME0-8E | 3               | 2.5                          | ★ 541333 | NEBU-M8G3-K-2.5-LE3  |
|                                                                                  |                                         |                 | 5                            | ★ 541334 | NEBU-M8G3-K-5-LE3    |
|  | For SMT/SME-8... and SMT0/SMTSO/SME0-8E | 3               | 2.5                          | ★ 541338 | NEBU-M8W3-K-2.5-LE3  |
|                                                                                  |                                         |                 | 5                            | ★ 541341 | NEBU-M8W3-K-5-LE3    |
| Socket M12x1, 5-pin                                                              |                                         |                 |                              |          |                      |
|  | For SMT/SME-8M and SMT0/SMTSO/SME0-8E   | 3               | 2.5                          | ★ 541363 | NEBU-M12G5-K-2.5-LE3 |
|                                                                                  |                                         |                 | 5                            | ★ 541364 | NEBU-M12G5-K-5-LE3   |
|  | For SMT/SME-8M and SMT0/SMTSO/SME0-8E   | 3               | 2.5                          | 541367   | NEBU-M12W5-K-2.5-LE3 |
|                                                                                  |                                         |                 | 5                            | 541370   | NEBU-M12W5-K-5-LE3   |

| Ordering data – Safety clip for ATEX zone                                        |      |                                                                                                                                                                                                       |          |             |                  |
|----------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------------------|
|                                                                                  | Size | Description                                                                                                                                                                                           | Part no. | Type        | PU <sup>1)</sup> |
|  | M8   | <ul style="list-style-type: none"> <li>Protects "equipment that is not intrinsically safe" in zones 2 and 22 against simple disconnection</li> <li>ATEX category: gas: II 3G / dust: II 3D</li> </ul> | 548067   | NEAU-M8-GD  | 1                |
|                                                                                  | M12  |                                                                                                                                                                                                       | 548068   | NEAU-M12-GD | 1                |

1) Packaging unit

| Ordering data – Mounting components                                               |                                       |          |        |
|-----------------------------------------------------------------------------------|---------------------------------------|----------|--------|
|                                                                                   | Description                           | Part no. | Type   |
|  | For fixing connecting cables in place | 534254   | SMBK-8 |

| Ordering data – Sensor tester                                                      |                                                                                                                                                                                             |          |           |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|
|                                                                                    | Description                                                                                                                                                                                 | Part no. | Type      |
|  | <ul style="list-style-type: none"> <li>Testing the functionality of proximity switches using the integrated voltage supply</li> <li>Adjusting proximity switches on the cylinder</li> </ul> | 158481   | SM-TEST-1 |

| Ordering data – Inscription labels                                                 |         |          |            |                  |
|------------------------------------------------------------------------------------|---------|----------|------------|------------------|
|                                                                                    | Size    | Part no. | Type       | PU <sup>1)</sup> |
|  | 23x4 mm | 541598   | ASLR-L-423 | 34               |

1) Packaging unit