

FESTO 19102 SIE-M12S-PS-K-LED SIEM12SPSKLED SIE-M12S-PS-K=LED 19 102

**Proximity sensor**  
inductive, with built-in protective circuit and LED

with cable:  
**Type SIE-M12 S-PS-K = LED**  
with plug for angle socket:  
**Type SIE-M12 S-PS-S = LED**

PNP output

with cable:  
**Type SIE-M12 S-NS-K = LED**  
with plug for angle socket:  
**Type SIE-M12 S-NS-S = LED**

NPN output

with plug for angle socket:  
**Type SIE-M12 S-PO-S = LED**  
N/C contact function

PNP output

**Accessories:**  
Foot mounting Type HBN-8/10-1  
Adjustable stop Type SJA-M 12 x 1  
Fixed stop Type SDA-12 x 1-B  
Stop sleeve Type SJAH-M 12 x 1  
Angle socket Type SIE-WD-TR  
See sheet 2.385

**Type SIE-... with cable**

**Type SIE-... with plug for angle socket**

1 3-core cable, 2.5 m long (3 x 0.34 mm<sup>2</sup>)  
2 Active surface  
3 Yellow LED  
4 To fit angle socket Type SIE-WD-TR  
5 Mounting space for 90° angle socket

Colour coding  
blk = black  
br = brown  
bl = blue

When a metallic object approaches to within the switching distance of the active plus surface of the sensor, an electrical signal is output.  
A built-in LED shows yellow when the sensor is actuated.

Correction factor for S<sub>0</sub> for following materials:

|           |                      |
|-----------|----------------------|
| St 37     | 1.0 x S <sub>0</sub> |
| Brass     | 0.5 x S <sub>0</sub> |
| Aluminium | 0.4 x S <sub>0</sub> |
| Copper    | 0.3 x S <sub>0</sub> |

|                                                         |                 |                                         |                              |                              |
|---------------------------------------------------------|-----------------|-----------------------------------------|------------------------------|------------------------------|
| Order code                                              | PNP output      | 19 102 SIE-M 12 S-PS-K = LED            | 19 104 SIE-M 12 S-PS-S = LED | 19 106 SIE-M 12 S-PO-S = LED |
|                                                         | NPN output      | 19 103 SIE-M 12 S-NS-K = LED            | 19 105 SIE-M 12 S-NS-S = LED |                              |
|                                                         | Angle socket    | 12 956 SIE-WD-TR                        |                              |                              |
|                                                         | Foot mounting   | 5123 HBN 8/10-1                         |                              |                              |
|                                                         | Stop            | 11 541 SDA-12 x 1-B                     |                              |                              |
|                                                         | Adjustable stop | 12 483 SJA-M 12 x 1                     |                              |                              |
|                                                         | Stop sleeve     | 14 502 SJAH-M 12 x 1                    |                              |                              |
| Part No./Type                                           |                 |                                         |                              |                              |
| Medium                                                  |                 | Electric current                        |                              |                              |
| Design                                                  |                 | Contactless electrical signal generator |                              |                              |
| Mounting                                                |                 | Can be installed flush in metal         |                              |                              |
| Connection                                              |                 | Thread M 12 x 1                         | Plug connection              |                              |
| Switching voltage                                       |                 | 10 to 30 V DC                           |                              |                              |
| Residual ripple                                         |                 | Max. 10% to DIN 41755                   |                              |                              |
| Max. switching current                                  |                 | 400 mA                                  |                              |                              |
| Nominal switching distance (S <sub>n</sub> ) with St 37 |                 | 4 mm                                    |                              |                              |
| Actual switching distance (S <sub>r</sub> )             |                 | 3.6 to 4.4 mm                           |                              |                              |
| Working switching distance (S <sub>0</sub> )            |                 | Max. 3.2 mm                             |                              |                              |
| Switching hysteresis                                    |                 | 1 to 15% S <sub>r</sub>                 |                              |                              |
| Reproducible switching accuracy                         |                 | 0.01 mm                                 |                              |                              |
| Switching frequency                                     |                 | Max. 0.8 kHz                            |                              |                              |
| Switching time                                          |                 | 1.2 ms                                  |                              |                              |
| Degree of protection (DIN 40050)                        |                 | IP 67                                   | IP 65                        |                              |
| Temperature range                                       |                 | -25 to +70 °C                           |                              |                              |
| Material                                                |                 | Nickel-plated brass                     |                              |                              |
| Weight                                                  |                 | 0.130 kg                                | 0.025 kg                     | 0.025 kg                     |

2.384

[PNP|NO|Flush|Sn=4mm]

Rating: Not Rated Yet  
Price

[Ask a question about this product](#)

Description

FESTO|NEW|Inductive Proximity|Cylindrical|M12x1|40mm|PNP|NO|Flush|Sn=4mm| 3.6 to 4.4mm| 0.01mm|Max. 3.2mm|0.8KZ|1.2ms|LED|3|Cable 3Core 2.5M|10-30VDC|Max Switching Current : 400mA|IP67|-25 to 70degrees|

| Manufac | Conditio | n     | Type  | Sha   | Sha | Len | Out  | Con  | Can  | NO   | Act   | Rep  | Wor  | Swit | Swit | Indi | Nu    | Outp  | Power   | Switchi | Prote   | Tem  |
|---------|----------|-------|-------|-------|-----|-----|------|------|------|------|-------|------|------|------|------|------|-------|-------|---------|---------|---------|------|
| ture    | n        |       | pe    | pe    | gth | put | tact | be   | i    | min  | ual   | rod  | king | hing | chin | cati | mbeut | vi    | suppl   | ng      | citon   | per  |
| r       |          |       | emo   | rtica |     |     | NO/  | nsta | al   | S    | Swit  | ucib | Swit | Fre  | g    | Ti   | on    | r     | a=?     | y       | current | atur |
|         |          |       |       |       |     |     | NC   | lled | witc | chin | le    | S    | chin | que  | me   | of   | a     | wrie  |         |         | e       |      |
|         |          |       |       |       |     |     |      | flus | hing | g    | Di    | witc | g    | Di   | ncy  |      | civa  | s     |         |         |         |      |
|         |          |       |       |       |     |     |      | h    | in   | Dist | stan  | hing | stan |      |      | tion |       |       |         |         |         |      |
|         |          |       |       |       |     |     |      | met  | anc  | ce:  | Acc   | ce:  |      |      |      |      |       |       |         |         |         |      |
|         |          |       |       |       |     |     |      | al   | ore: | (    | (Sr): | urac | (Sa) |      |      |      |       |       |         |         |         |      |
|         |          |       |       |       |     |     |      | not  | Sn)  |      | y:    |      |      |      |      |      |       |       |         |         |         |      |
|         |          |       |       |       |     |     |      |      | with |      |       |      |      |      |      |      |       |       |         |         |         |      |
|         |          |       |       |       |     |     |      |      | St3  |      |       |      |      |      |      |      |       |       |         |         |         |      |
|         |          |       |       |       |     |     |      |      | 7    |      |       |      |      |      |      |      |       |       |         |         |         |      |
| FESNE   | Induc    | Cyli  | M12   | 40    | mm  | PNP | NO   | Flus | Sn=  | 3.6  | 0.0   | Max  | 0.8  | 1.2  | LED  |      | 3Cabl | 10-30 | Max     | Sw      | IP67    | -25  |
| TO      | W        | tive  | Pnde  | x1    | m   | P   |      | h    | 4m   | to   | 4.1m  | .    | 3.2K | ms   |      |      | e     | 3C    | VDC     | itching | to      | 7    |
|         |          | roxim | rical |       |     |     |      |      | m    | 4m   | m     | mm   |      |      |      |      | ore   |       | Current |         | Odr     |      |
|         |          | ity   |       |       |     |     |      |      | m    |      |       |      |      |      |      |      | 2.5M  | :     |         |         | egr     |      |
|         |          |       |       |       |     |     |      |      |      |      |       |      |      |      |      |      |       |       | 400mA   |         | ees     |      |

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