



DATA SHEET

# SP1-1000

System plugs deTec and deTem  
System plugs and extension modules

# SICK

Sensor Intelligence



Illustration may differ

SYSTEM PLUGS AND EXTENSION MOD-  
ULES

SP1-1000

ORDERING INFORMATION

| Type     | part no.                |
|----------|-------------------------|
| SP1-1000 | <a href="#">2076832</a> |

Further device versions and accessories at [www.sick.com/System\\_plugs\\_deTec\\_and\\_deTem](http://www.sick.com/System_plugs_deTec_and_deTem)



DETAILED TECHNICAL DATA

FEATURES

|                      |                              |
|----------------------|------------------------------|
| Compatible devices   | deTec4, deTem4, deTem4 A/P   |
| Function range       | SP1                          |
| System connection    | Plug, M12, 5-pin             |
| Extension connection | Without extension connection |
| Configuration method | DIP switch                   |
| Items supplied       | System plug                  |

FUNCTIONS

|                                                     |   |
|-----------------------------------------------------|---|
| Protective operation                                | ✓ |
| Automatic calibration of the protective field width | ✓ |

INTERFACES

|                      |                                       |
|----------------------|---------------------------------------|
| PIN assignment       | See table in "Pin assignment" graphic |
| System connection    | Plug, M12, 5-pin                      |
| Length of cable      | 200 mm                                |
| Cable diameter       | 5 mm                                  |
| Extension connection | Without extension connection          |

ELECTRONICS

|                  |                 |
|------------------|-----------------|
| Protection class | III (IEC 61140) |
|------------------|-----------------|

|                      |                             |
|----------------------|-----------------------------|
| Supply voltage $V_s$ | 24 V DC (19.2 V ... 28.8 V) |
| Ripple               | $\leq 10 \%$                |

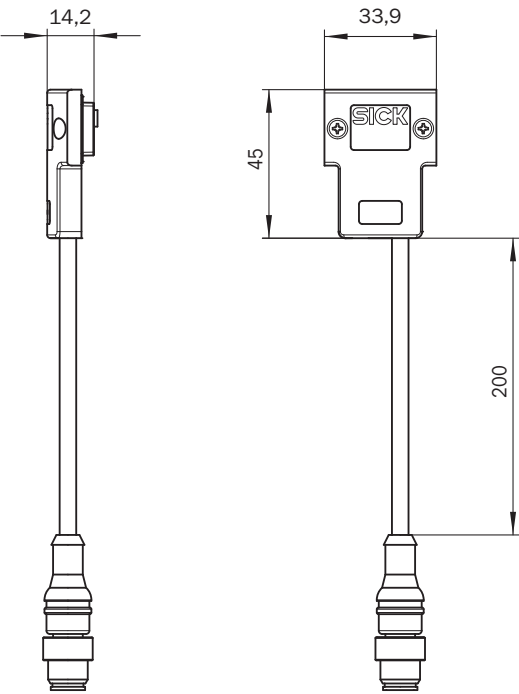
AMBIENT DATA

|                               |                                      |
|-------------------------------|--------------------------------------|
| Ambient operating temperature | -30 °C ... +55 °C                    |
| Storage temperature           | -30 °C ... +70 °C                    |
| Air humidity                  | 15 % ... 95 %, Non-condensing        |
| Vibration resistance          | 5 g, 10 Hz ... 55 Hz (IEC 60068-2-6) |
| Shock resistance              | 10 g, 16 ms (IEC 60068-2-27)         |

CERTIFICATES

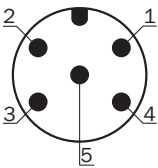
|                              |   |
|------------------------------|---|
| EU declaration of conformity | ✓ |
|------------------------------|---|

DIMENSIONAL DRAWING SP1-1200



Dimensions in mm (inch)

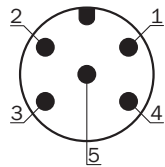
PINOUTS DETEM4 A/P SYSTEM CONNECTION



| Pin | Active unit |
|-----|-------------|
| 1   | +24 V DC    |
| 2   | OSSD1       |
| 3   | 0 V DC      |
| 4   | OSSD2       |
| 5   | N. c.       |

| Pin                                    | Active unit |
|----------------------------------------|-------------|
| For details see operating instructions |             |

PINOUTS DETEC4 SYSTEM CONNECTION



| Pin                                    | Sender                        | Receiver |
|----------------------------------------|-------------------------------|----------|
| 1                                      | +24 V DC                      | +24 V DC |
| 2                                      | In2Laser alignment aid button | OSSD1    |
| 3                                      | 0 V DC                        | 0 V DC   |
| 4                                      | In1Laser alignment aid switch | OSSD2    |
| 5                                      | MFP1                          | MFP1     |
| For details see operating instructions |                               |          |

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at [www.sick.com/2076832](http://www.sick.com/2076832)



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# SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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