



SP1-1100

System plugs deTec and deTem

SYSTEM PLUGS AND EXTENSION MODULES

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

| Type | part no. |
|----------|----------|
| SP1-1100 | 2076833 |

Other models and accessories → 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 | Female connector M12, 5-pin |
| IO-Link possible on the extension connection | ✓ |
| Configuration method | DIP switch |
| Items supplied | System plug |

Functions

| | |
|--|---|
| Protective operation | ✓ |
| Automatic calibration of the protective field width | ✓ |
| Restart interlock | ✓ |
| External device monitoring (EDM) | ✓ |
| Application diagnostic output (ADO) | ✓ |
| Cascading | ✓ |

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 | Female connector M12, 5-pin |
| Length of cable | 150 mm |
| Cable diameter | 5 mm |

Electronics

| | |
|--|-----------------------------|
| Protection class | III (IEC 61140) |
| Supply voltage V_s | 24 V DC (19.2 V ... 28.8 V) |
| Ripple | ≤ 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) |

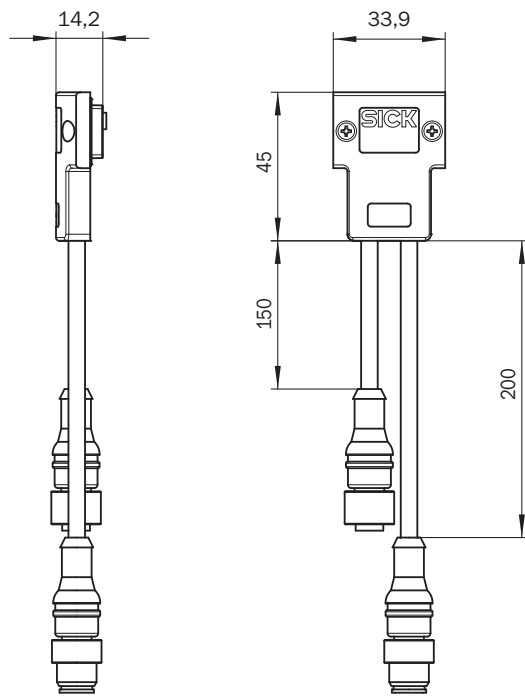
Certificates

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

Classifications

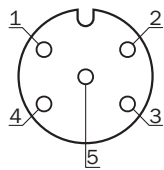
| | |
|-----------------------|----------|
| ECLASS 5.0 | 27272790 |
| ECLASS 5.1.4 | 27272790 |
| ECLASS 6.0 | 27272790 |
| ECLASS 6.2 | 27272790 |
| ECLASS 7.0 | 27272790 |
| ECLASS 8.0 | 27272790 |
| ECLASS 8.1 | 27272790 |
| ECLASS 9.0 | 27272792 |
| ECLASS 10.0 | 27272792 |
| ECLASS 11.0 | 27272792 |
| ECLASS 12.0 | 27272792 |
| ETIM 5.0 | EC011349 |
| ETIM 6.0 | EC011349 |
| ETIM 7.0 | EC011349 |
| ETIM 8.0 | EC011349 |
| UNSPSC 16.0901 | 46171620 |

Dimensional drawing



Dimensions in mm (inch)

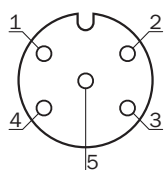
Pinouts deTem4 A/P extension connection



| Pin | Active unit |
|-----|----------------|
| 1 | +24 V Out |
| 2 | In1EDM |
| 3 | 0 V Out |
| 4 | In2RES |
| 5 | MFP2ADOIO-Link |

For details see operating instructions

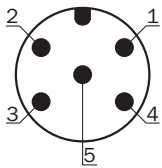
Pinouts deTec4 extension connection



| Pin | Sender | Receiver |
|-----|-----------|----------------|
| 1 | +24 V Out | +24 V Out |
| 2 | N. c. | In1EDM |
| 3 | 0 V Out | 0 V Out |
| 4 | Sync-Out | In2RES |
| 5 | MFP2 | MFP2ADOIO-Link |

For details see operating instructions

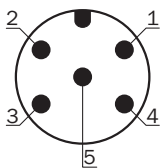
Pinouts deTem4 A/P system connection



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

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

Recommended accessories

Other models and accessories → www.sick.com/System_plugs_deTec_and_deTem

| | Brief description | Type | part no. |
|---|--|--------------------------------|----------|
| connectors and cables | | | |
|  | <ul style="list-style-type: none"> Description: Unshielded Connection type head A: Female connector, M12, 5-pin, A-coded Connection type head B: Female connector, M12, 5-pin, A-coded Connection type head C: Male connector, M12, 5-pin, A-coded | DSC-1205T000025KMC | 6030664 |
|  | | IO-Link connector | 2092757 |
| network devices | | | |
|  | | IOLA2US-01101 (SiLink2 Master) | 1061790 |
|  | | SIG200-0A0G12200 | 1102605 |
|  | | SIG200-0A0412200 | 1089794 |
|  | | SIG200-0A0512200 | 1089796 |

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

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