

ISD400-7212 ISD400

OPTICAL DATA TRANSMISSION



OPTICAL DATA TRANSMISSION



Ordering information

| Туре | part no. |
|-------------|----------|
| ISD400-7212 | 1065101 |

Other models and accessories → www.sick.com/ISD400

Illustration may differ



Detailed technical data

Technical specifications

| • | |
|-------------------------------|---------------------------|
| Accessory group | Optical data transmission |
| Accessory family | ISD400 |
| Weight | Approx. 800 g |
| Housing material | AlSi12 |
| Enclosure rating | IP65 |
| Ambient operating temperature | -20 °C +55 °C |
| Permissible relative humidity | 90 %, Non-condensing |

Mechanics/electronics

| Power consumption | \leq 3.6 W $^{1)}$ |
|-------------------|----------------------|
| Frequency | F2 |
| Protection class | III |

¹⁾ Without load with 24 V.

Performance

| Transmission range | ≥ 0.2 m |
|---------------------------------|--|
| Light source | Laser, red (660 nm) |
| Laser class | 1M (IEC 60825-1:2014, EN 60825-1:2014) |
| Typ. light spot size (distance) | 1.75 m (at 100 m) |
| Aperture angle | Sender |

Interfaces

| Ethernet | | ✓ |
|----------------|------------------------|-------------------------------------|
| | Data transmission rate | 100 Mbit/s |
| Digital input | | V _s : sender deactivated |
| Digital output | | |
| | Number | 1 ¹⁾ |

 $^{^{1)}}$ HIGH: $\rm U_{V}$ – 3 V, LOW: < 2 V.

| Туре | PNP |
|------|---|
| | Output active for LOW and HIGH level |
| | Warning messages as the laser ages, if the permissible limits of the interior device temperature are exceeded or undercut, if the optical path is interrupted, if no Ethernet cable is connected, if the receiving level is undercut, if the laser is not ready for operation, if the heating is switched on. |

 $^{^{1)}}$ HIGH: U_V – 3 V, LOW: < 2 V.

Ambient data

| Electromagnetic compatibility (EMC) | EN 61000-6-2, EN 61000-6-4 ¹⁾ |
|-------------------------------------|--|
| Ambient temperature, operation | -20 °C +55 °C |
| Max. rel. humidity (not condensing) | 90 %, Non-condensing |

 $^{^{1)}\,\}mathrm{This}$ is a Class A device. This device can cause radio interference in living quarters.

General notes

| Note | Setting up a data transmission path requires a pair of devices, where one device has frequency F1 (ISD400-7xx1) and the other device has frequency F2 (ISD400-7xx2). A wide variety of |
|------|--|
| | Ethernet protocols can be used in protocol-free transmission (e.g., PROFINET, PROFIsafe, EtherNet/IP, EtherCAT, TCP/IP, etc.). |

Features

| Weight | Approx. 800 g |
|-------------------------------|---------------------|
| Housing material | AlSi12 |
| Enclosure rating | IP65 |
| Ambient operating temperature | -20 °C +55 °C |
| Permissible relative humidity | 90 % Non-condensing |

Certificates

| EU declaration of conformity | ✓ |
|------------------------------------|---|
| UK declaration of conformity | 1 |
| ACMA declaration of conformity | 1 |
| Moroccan declaration of conformity | 1 |
| China RoHS | 1 |
| cULus certificate | 1 |

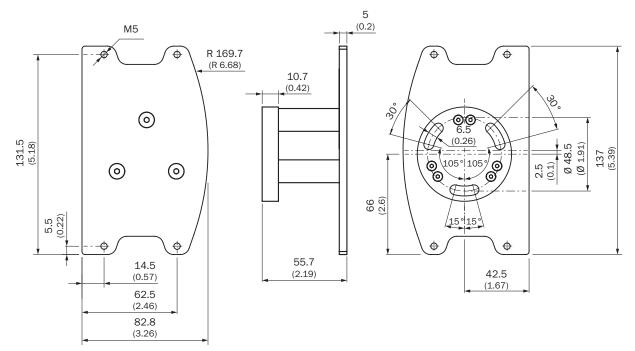
Classifications

| ECLASS 5.0 | 19039001 |
|--------------|----------|
| ECLASS 5.1.4 | 19039001 |
| ECLASS 6.0 | 19179090 |
| ECLASS 6.2 | 19179090 |
| ECLASS 7.0 | 19179090 |
| ECLASS 8.0 | 19179090 |
| ECLASS 8.1 | 19179090 |
| ECLASS 9.0 | 19179090 |
| ETIM 5.0 | EC000515 |
| ETIM 6.0 | EC000515 |

UNSPSC 16.0901

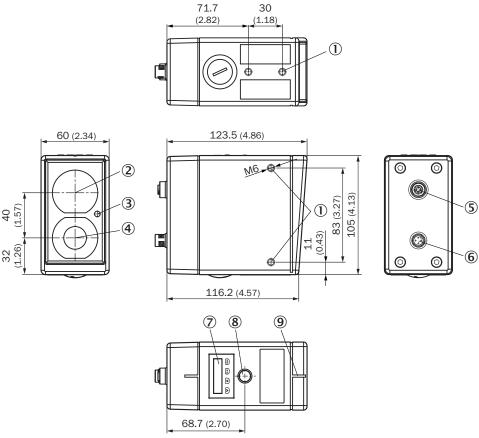
43201404

Dimensional drawing



Dimensions in mm (inch)

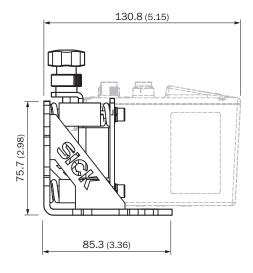
Dimensional drawing

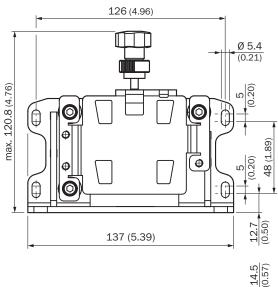


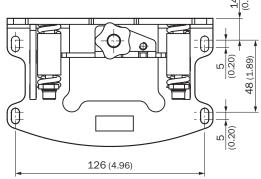
Dimensions in mm (inch)

- ① Threaded mounting hole M6
- ② Center of optical axis, sender
- ③ Receive indicator
- 4 Center of optical axis, receiver
- ⑤ Ethernet female connector M12, 4-pin, D-coded
- 6 Power supply male connector M12, 4-pin, A-coded
- ⑦ Display with pushbuttons
- ® Optical adjustment aid
- Alignment sight

Dimensional drawing

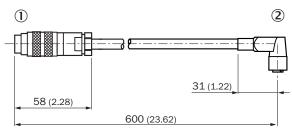






Dimensions in mm (inch)

Dimensional drawing



Dimensions in mm (inch)

- ① Connector M16, 8-pin
- ② male connector M12, 8-pin

Ethernet connection type



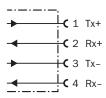
Voltage supply connection type



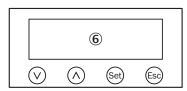
Voltage supply connection diagram



Ethernet connection diagram



Adjustments



6 Liquid crystal display with function keys

ISD400-7212 | ISD400

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Recommended accessories

Other models and accessories → www.sick.com/ISD400

| | Brief description | Туре | part no. |
|------------------|--|-------------|----------|
| Mounting systems | | | |
| | Description: Alignment unit for DME4000/ISD400, aluminum, anodised | BEF-DME/ISD | 2046052 |

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