



ISD400-6121 ISD400

OPTICAL DATA TRANSMISSION



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Ordering information

| Туре | Part no. |
|-------------|----------|
| ISD400-6121 | 1046120 |

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



Detailed technical data

Performance

| Transmission range | 0.2 m 180 m |
|---------------------------------|------------------------|
| Light source | LED, infrared (880 nm) |
| Typ. light spot size (distance) | 1.75 m (at 100 m) |
| Aperture angle | Ca. ± 0.5° |
| Heating | √ |

Interfaces

| Data transmission rate | 3 Mbit/s |
|------------------------|--|
| Switching output | HIGH: U _v – 3 V, LOW: < 2 V |
| Data interface | Ethernet ¹⁾ |
| Switching input | V _s : sender deactivated |
| Signal delay | \leq 350 µs, + no. of Bytes x 8 / 3 Mbit/s $^{2)}$ |

¹⁾ Internal buffer 8 kB.

Mechanics/electronics

| Supply voltage $V_{\rm s}$ | DC 18 V 30 V |
|----------------------------|-------------------------|
| Power consumption | ≤ 25 W ^{1) 2)} |
| Housing material | Metal |
| Connection type | Connector, M12, 4-pin |
| Weight | Approx. 900 g |

 $^{^{1)}}$ Without load.

Ambient data

| Amount add | |
|-------------------------------------|---|
| Enclosure rating | IP 65 |
| Protection class | III |
| Electromagnetic compatibility (EMC) | EN 61000-6-2 / EN 61000-6-4 ¹⁾ |
| Ambient temperature operation | -40 °C +55 °C |
| Storage temperature | -40 °C +75 °C |

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

 $^{^{2)}}$ 1 μ s + 2 Tbit only for PROFIBUS.

²⁾ At 24 V.

Max. rel. humidity (not condensing)

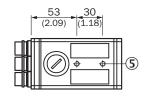
90 %, Non-condensing

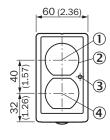
General notes

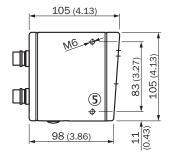
Note

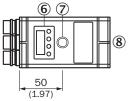
Setting up a data transmission path requires a pair of devices, where one device has frequency F1 (ISD400-7xx1) and the other device has frequency F2 (ISD400-7xx2). A wide variety of Ethernet protocols can be used in protocol-free transmission (e.g., PROFINET, PROFIsafe, EtherNet/IP, EtherCAT, TCP/IP,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

Dimensional drawing (Dimensions in mm (inch))





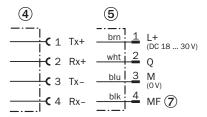




- ① Optical axis, sender
- ② View finder lens
- 3 Function indicator/level warning
- ④ Optical axis, receiver
- ⑤ Threaded mounting hole M6
- Liquid crystal display with function keys
- ⑦ Optical adjustment aid
- Alignment sight

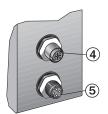
Connection type

ISD400 Ethernet



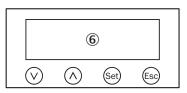
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Connection diagram



⑦ Multifunctional input (MF)

Adjustment possible



6 Liquid crystal display with function keys

Recommended accessories

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

| | Brief description | Туре | Part no. |
|---------------------------------|---|-------------|----------|
| Terminal and alignment brackets | | | |
| | Alignment unit for DME4000/ISD400, aluminum, anodised | BEF-DME/ISD | 2046052 |

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