

ISD400-7211 ISD400

**OPTICAL DATA TRANSMISSION** 



## OPTICAL DATA TRANSMISSION



## Illustration may differ

## Ordering information

Туре	Part no.
ISD400-7211	1065100

Data transmission requires two devices. The second device must be ordered separately.

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



#### Detailed technical data

#### Mechanics/electronics

Supply voltage V <sub>s</sub>	DC 18 V 30 V
Power consumption	$\leq$ 3.6 W $^{1)}$
Connection type	1 x Ethernet female connector M12, 4-pin, D-coded 1 x power supply male connector M12, 4-pin, A-coded
Frequency	F1
Enclosure rating	IP65
Protection class	III

<sup>&</sup>lt;sup>1)</sup> Without load.

#### Performance

Transmission range	0.2 m 150 m
Light source	Laser, red (660 nm) Laser, infrared (785 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	1° (sender) 1.5° (receiver)

#### Interfaces

Ethernet	✓
Data transmission rate	100 Mbit/s
Digital input	$V_s$ : sender deactivated
Digital output	
Number	1 <sup>1)</sup>
Туре	Push-pull: PNP/NPN
Function	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.

 $<sup>^{1)}</sup>$  HIGH:  $\mbox{U}_{\mbox{\scriptsize V}}$  – 3 V, LOW: < 2 V.

#### Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-2 <sup>1)</sup> EN 61000-6-4
Ambient temperature operation	-20 °C +55 °C
Ambient storage temperature	-40 °C +75 °C
Max. rel. humidity (not condensing)	90 %, Non-condensing

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

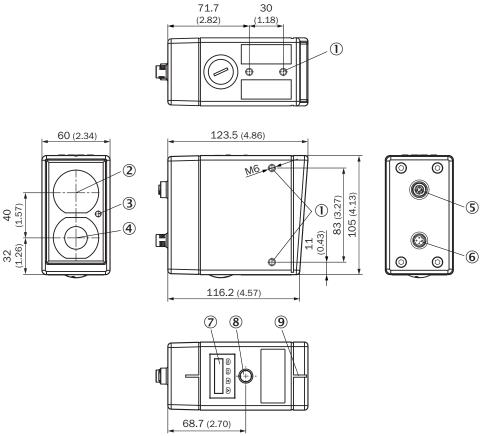
## General notes

Note	Setting up a data transmission path requires a pair of devices, where one device has frequen-
	cy 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, Ether-Net/IP, EtherCAT, TCP/IP, etc.).

#### Classifications

ECI@ss 5.0	19039001
ECI@ss 5.1.4	19039001
ECI@ss 6.0	19179090
ECI@ss 6.2	19179090
ECI@ss 7.0	19179090
ECI@ss 8.0	19179090
ECI@ss 8.1	19179090
ECI@ss 9.0	19179090
ECI@ss 10.0	19179090
ECI@ss 11.0	19170500
ETIM 5.0	EC000515
ETIM 6.0	EC000515
ETIM 7.0	EC000515
UNSPSC 16.0901	43201404

#### 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
- Power supply male connector M12, 4-pin, A-coded
- ⑦ Display with pushbuttons
- ® Optical adjustment aid
- Alignment sight

## Connection type

Ethernet connection type



Voltage supply connection type

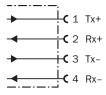


### Connection diagram

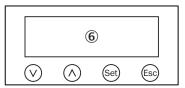
Voltage supply connection diagram



Ethernet connection diagram



## Adjustment possible



⑤ 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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