



ISD400-7211 ISD400

OPTICAL DATA TRANSMISSION



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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



Illustration may differ

Detailed technical data

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

I	Ethernet	√
	Data transmission rate	100 Mbit/s
:	Switching output	HIGH: U _v – 3 V, LOW: < 2 V
:	Switching input	V _s : sender deactivated

Mechanics/electronics

Supply voltage V_s	DC 18 V 30 V
Power consumption	\leq 3.6 W $^{1)}$
Housing material	AlSi12
Connection type	1 x Ethernet female connector M12, 4-pin, D-coded 1 x power supply male connector M12, 4-pin, A-coded
Weight	Approx. 800 g
Frequency	F1
Enclosure rating	IP65
Protection class	III

¹⁾ Without load.

Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-2, EN 61000-6-4 ¹⁾
Ambient temperature operation	-20 °C +55 °C -40 °C +75 °C, operation with cooling case
Ambient storage temperature	-40 °C +75 °C

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

Max. rel. humidity (not condensing) 90 %, Non-condensing

General notes

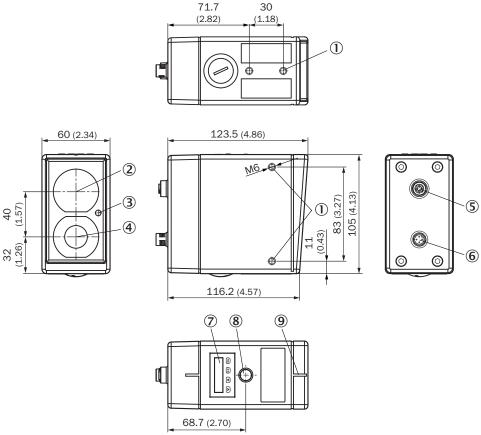
Note	Setting up a data transmission path requires a pair of devices, where one device has frequency F1 (ISD400-7xx1) and the other device has frequency F2 (ISD400-7xx2). A wide variety of
	Ethernet protocols can be used in protocol-free transmission (e.g., PROFINET, PROFIsafe, Ether-Net/IP, EtherCAT, 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
ETIM 5.0	EC000515
ETIM 6.0	EC000515
UNSPSC 16.0901	43201404

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

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

Dx100 Ethernet female connector, M12, 4-pin, D-coded



Dx100 PROFIBUS/PROFINET/CANopen/Ethernet/IP, M12 male connector, 4-pin, A-coded

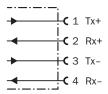


Connection diagram

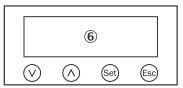
Voltage supply connection diagram



Ethernet M12 female connector, 4-pin



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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