

ISD400-6121 ISD400

**OPTICAL DATA TRANSMISSION** 



## OPTICAL DATA TRANSMISSION



### Illustration may differ

## Ordering information

Туре	Part no.
ISD400-6121	1046120

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 $V_s$	DC 18 V 30 V
Power consumption	$\leq$ 25 W $^{1)}$
Connection type	Connector, M12, 4-pin
Enclosure rating	IP65
Protection class	III

 $<sup>^{1)}</sup>$  Without load with 24 V.

#### 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	<b>√</b>

#### Interfaces

Ethernet	✓
Remark	Internal buffer 8 kB
Data transmission rate	3 Mbit/s
Digital input	V <sub>s</sub> : sender deactivated
Digital output	
Number	1 <sup>1)</sup>
Туре	PNP
Signal delay	$\leq$ 350 µs, + no. of Bytes x 8 / 3 Mbit/s $^{2)}$

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

### Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-2 <sup>1)</sup>
	EN 61000-6-4

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

 $<sup>^{2)}</sup>$  1  $\mu s$  + 2 Tbit only for PROFIBUS.

Ambient temperature, operation	-40 °C +55 °C, operation with heating
Ambient temperature, storage	-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.

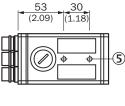
## General notes

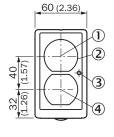
Note	2 devices are required to construct a data transmission path. The devices are identical and
	must be ordered separately. Frequencies F1 and F2 can be set.

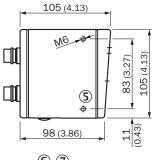
## Classifications

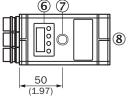
ECLASS 5.0	19039001
ECLASS 5.1.4	19039001
ECLASS 6.0	19179090
ECLASS 6.2	19179090
ECLASS 7.0	19179090
ECLASS 8.0	19179090
ECLASS 8.1	19179090
ECLASS 9.0	19179090
ECLASS 10.0	19179090
ECLASS 11.0	19170500
ECLASS 12.0	19170500
ETIM 5.0	EC000515
ETIM 6.0	EC000515
ETIM 7.0	EC000515
ETIM 8.0	EC000515
UNSPSC 16.0901	43201404

### Dimensional drawing (Dimensions in mm (inch))





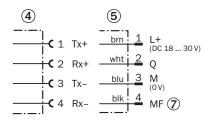




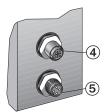
- ① Optical axis, sender
- ② View finder lens
- 3 Function indicator/level warning
- ④ Optical axis, receiver
- ⑤ Threaded mounting hole M6
- ⑤ Liquid crystal display with function keys
- Optical adjustment aid
- Alignment sight

### Connection type

#### ISD400 Ethernet

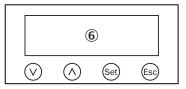


## Connection diagram



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

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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."

# **WORLDWIDE PRESENCE:**

Contacts and other locations -www.sick.com

