

ISD400-1111 ISD400

OPTICAL DATA TRANSMISSION



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Illustration may differ

Ordering information

Туре	Part no.
ISD400-1111	1042286

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 $V_{\rm s}$	DC 18 V 30 V
Power consumption	\leq 4.8 W $^{1)}$
Connection type	Connector, M12, 4-pin
Enclosure rating	IP65
Protection class	III

¹⁾ Without load.

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°

Interfaces

PROFIBUS DP		√
	Data transmission rate	3 Mbit/s
Digital input		V _s : sender deactivated
Digital output		
	Number	1 ¹⁾
	Туре	PNP
Signal delay		\leq 1 µs, + 2 Tbit $^{2)}$

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

Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-2 ¹⁾ EN 61000-6-4
Ambient temperature, operation	-25 °C +55 °C
Ambient temperature, storage	-40 °C +75 °C

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

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

Max. rel. humidity (not condensing)

90 %, Non-condensing

General notes

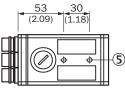
Note	2 devices are required to construct a data transmission path. The devices are identical and
	must be ordered separately. Frequencies F1 and F2 can be set.

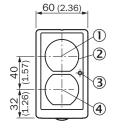
Classifications

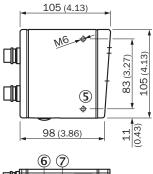
ECLASS 5.0	19039001
ECLASS 5.1.4	19039001
ECLASS 6.0	19179090
ECLASS 6.2	19179090
ECLASS 7.0	19179090
ECLASS 8.0	19179090
ECLASS 8.1	19179090
ECLASS 9.0	19179090
ECLASS 10.0	19179090
ECLASS 11.0	19170500
ECLASS 12.0	19170500
ETIM 5.0	EC000515
ETIM 6.0	EC000515
ETIM 7.0	EC000515
ETIM 8.0	EC000515
UNSPSC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

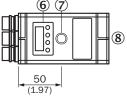
 $^{^{1)}\,\}mathrm{This}$ is a Class A device. This device can cause radio interference in living quarters.

Dimensional drawing (Dimensions in mm (inch))









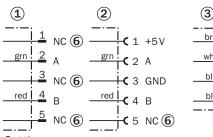
- ① Optical axis, sender
- ② View finder lens
- 3 Function indicator/level warning
- ④ Optical axis, receiver
- ⑤ Threaded mounting hole M6
- 6 Liquid crystal display with function keys
- Optical adjustment aid
- Alignment sight

Connection type

ISD400 RS-485/PROFIBUS



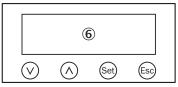
Connection diagram



3		
brn	1	L+
wht	2	(DC 18 30 V)
blu	3	M (0 V)
blk	4	MF (7)
	1	J

- 6 NC = not connected
- 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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