



ISD300-6211 ISD300

OPTICAL DATA TRANSMISSION





Ordering information

Туре	Part no.
ISD300-6211	6028692

Other models and accessories → www.sick.com/ISD300



Detailed technical data

Performance

Transmission range	0.2 m 200 m
Light source	LED, infrared (880 nm)
Typ. light spot size (distance)	1.75 m (at 100 m)
Aperture angle	Ca. ± 0.5°

Interfaces

Data transmission rate	2 Mbit/s
Switching output	0 V 2 V: interference-free operation V_S –2 V: reduced system reserve
Data interface	Ethernet 1)
Switching input	0 V 2 V: sender deactivated

 $^{^{1)}}$ RS-485 on request.

Mechanics/electronics

Supply voltage V_s	DC 18 V 30 V
Housing material	Metal
Connection type	Terminals
Weight	Approx. 1.2 kg
Current consumption	≤ 0.2 A
Frequency	F1 ¹⁾

 $^{^{1)}}$ A pair of devices with numbers ending in 1 and 2 are required to create a data transfer section.

Ambient data

Enclosure rating	IP 65
Protection class	I
Electromagnetic compatibility (EMC)	EN 61000-6-2 / EN 61000-6-4 ¹⁾
Ambient temperature	Storage: -30 °C +70 °C
Ambient temperature operation	-5 °C +50 °C

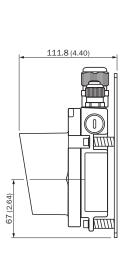
 $^{^{}m 1)}$ This is a Class A device. This device can cause radio interference in living quarters.

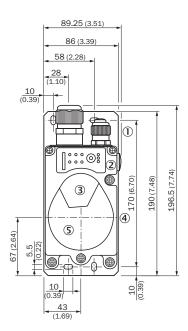
Max. rel. humidity (not condensing)

90 %, Non-condensing

Dimensional drawing (Dimensions in mm (inch))

ISD300 Ethernet

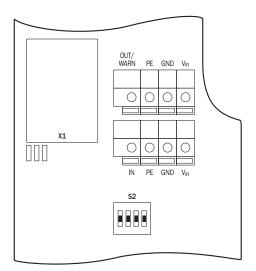




- 1 M16 gland2 Control panel
- 3 Sender lens
- ④ Center of optical axis
- ⑤ Receiver lens

Connection type

ISD300 Ethernet



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

Connection diagram

Terminals, general

Vin	L+
GND	М
PE	Shield
OUT/WARN	Q
IN	Switch. input

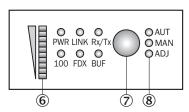
Socket Function

X1	R I-45 socket for 10Base-T or 100Base-TX

Switch	Position	Function
S2.1 ON		Autospace negotiation active (default)
	OFF	Autospace negotiation deactivated
S2.2	ON	100 Mbit
	OFF	10 Mbit (default)
S2.3	ON	Full duplex
	OFF	Half duplex (default)
S2.4	ON	Reserved
	OFF	Reserved (default)

Adjustment possible

ISD300 Ethernet



- ⑥ Display for signal level
- ⑦ Operating mode selector switch
- 8 LED operating indicator

Recommended accessories

Other models and accessories → www.sick.com/ISD300

	Brief description	Туре	Part no.
Plug connecto	rs and cables		
	Head A: cable Head B: cable Cable: PROFIBUS DP, drag chain use, PUR, shielded	LTG-2102-MW	6021355

	Brief description	Туре	Part no.
///	Head A: cable Head B: cable Cable: CANopen, DeviceNet, drag chain use, shielded Wire shield Al-Pt film, overall shield C-screen tin-plated	LTG-2804-MW	6028328
	Head A: male connector, M12, 5-pin, straight, B-coded Head B: cable Cable: PROFIBUS DP, drag chain use, PUR, halogen-free, shielded, 5 m Wire shield Al-Pt film, overall shield C-screen tin-plated	STL-1205-G05MQ	6026005
	Head A: female connector, M12, 5-pin, straight Cable: CANopen, DeviceNet, shielded	DOS-1205-GA	6027534
	Head A: female connector, M12, 5-pin, straight, B-coded Head B: - Cable: PROFIBUS DP, shielded	DOS-1205-GQ	6021353
Co	Head A: male connector, M12, 5-pin, straight, A-coded Cable: CANopen, DeviceNet, shielded	STE-1205-GA	6027533
	Head A: male connector, M12, 5-pin, straight, B-coded Head B: - Cable: PROFIBUS DP, shielded	STE-1205-GQ	6021354

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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.

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