



ISD300-1212 ISD300

OPTICAL DATA TRANSMISSION



OPTICAL DATA TRANSMISSION



Ordering information

Туре	Part no.
ISD300-1212	6024760

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	1.5 Mbit/s
Switching output	0 V 2 V: interference-free operation V_S –2 V: reduced system reserve
Data interface	RS-485/PROFIBUS DP ¹⁾
Switching input	0 V 2 V: sender deactivated
Signal delay	≤ 1.5 µs, + 1 Tbit

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

Mechanics/electronics

Supply voltage $V_{\rm s}$	DC 18 V 30 V
Housing material	Metal
Connection type	Terminals
Weight	Approx. 1.2 kg
Current consumption	≤ 0.2 A
Frequency	F2 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

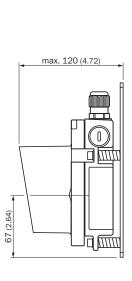
 $^{^{}m 1)}$ This is a Class A device. This device can cause radio interference in living quarters.

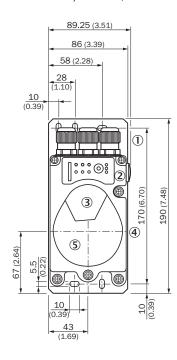
Ambient temperature operation -5 °C ... +50 °C

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

Dimensional drawing (Dimensions in mm (inch))

ISD300 RS-485/PROFIBUS, ISD300 RS-422/Interbus, ISD300 DH+/RIO, ISD300 DeviceNet/CANopen

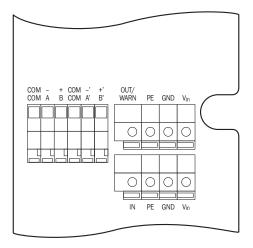




- ① M16 gland
- ② Control panel
- 3 Sender lens
- 4 Center of optical axis
- ⑤ Receiver lens

Connection type

ISD300 RS-485/PROFIBUS



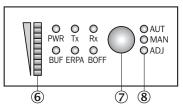
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Connection diagram

Terminals, general		Terminals, PROFIBUS		
V _{in}	L+	A, -	A wire	
GND	M	B, +	B wire	
PE	Shield	СОМ	Pot. balance	
OUT/WARN	Q	A', -'	A wire	
IN	Switch. input	B', +'	B wire	

Adjustment possible

ISD300 RS-485/PR0FIBUS, ISD300 RS-422/Interbus, ISD300 DH+/RIO, ISD300 DeviceNet/CANopen



- 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	Plug connectors and cables			
	Head A: cable Head B: cable Cable: PROFIBUS DP, drag chain use, PUR, shielded	LTG-2102-MW	6021355	
	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	

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Brief description	Туре	Part no.
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.

For us, that is "Sensor Intelligence."

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