

OPTICAL DATA TRANSMISSION



ISD300-5211 | ISD300

OPTICAL DATA TRANSMISSION



Ordering information

Туре	Part no.
ISD300-5211	6027231

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

CE

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 Mbit/s, 0.5 Mbit/s
Switching output	0 V 2 V: interference-free operation V _S –2 V: reduced system reserve
Data interface	DeviceNet/CANopen 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	1
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

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

OPTICAL DATA TRANSMISSION

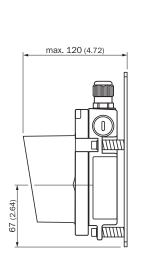
Max. rel. humidity (not condensing)

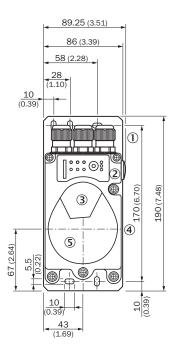
90 %, Non-condensing

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

Dimensional drawing (Dimensions in mm (inch))

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

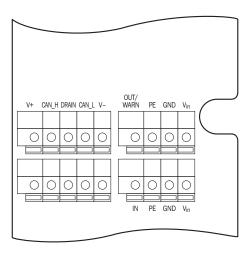




- ① M16 gland
- Control panel
- ③ Sender lens
- ④ Center of optical axis
- ⑤ Receiver lens

Connection type

ISD300 DeviceNet/CANopen



ISD300-5211 | ISD300

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Connection diagram

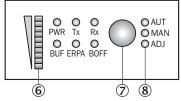
Terminals, general

Terminals, CANopen/DeviceNet

Vin	L+	V -	Neg. supply (CAN reference ground)	
GND	М	CAN_L	Bus signal (LOW)	
PE	Shield	DRAIN	Shield	
OUT/WARN	Q	CAN_H	Bus signal (HIGH)	
IN	Switch. input	V+	Pos. supply	

Adjustment possible

ISD300 RS-485/PROFIBUS, 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 connectors and cables				
\mathcal{N}	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	
le la	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	
S	Head A: female connector, M12, 5-pin, straight, B-coded Head B: - Cable: PROFIBUS DP, shielded	DOS-1205-GQ	6021353	
	Head A: male connector, M12, 5-pin, straight, A-coded Cable: CANopen, DeviceNet, shielded	STE-1205-GA	6027533	

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Brief description	Туре	Part no.
Head A: male connector, M12, 5-pin, straight, B-coded Head B: - Cable: PROFIBUS DP, shielded	STE-1205-GQ	6021354

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:

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Online data sheet

