Product family overview

ISD300

Optical data transmission for long transmission ranges

SICK
Sensor Intelligence.

Technical data overview

Transmission range	0.2 m ... 300 m (depending on type)
PROFIBUS DP	✓
Serial	✓, RS-485
DeviceNet™	✓
CANopen	✓
Enclosure rating	IP65
Ambient temperature, operation	–5 °C ... +50 °C
Ambient temperature, storage	–30 °C ... +70 °C
Data transmission rate	1.5 Mbit/s (depending on type)

Product description

The ISD300 infrared data transmission system enables wireless communication between vehicles and fixed stations, thus providing a wear-free and flexible solution. The system consists of an optically aligned pair of sender and receiver which can communicate bidirectional over long distances.

At a glance

- Transmission range up to 300 m
- Configurable baud rate up to 2 Mbit/s
- Bar graph display for fine alignment
- Optical aid for rough alignment
- Variety of interfaces: PROFIBUS, Ethernet, DeviceNet, Modbus

Your benefits

- Non-contact system eliminates wear and tear thus guaranteeing high machine uptime and significantly reduced maintenance costs
- Reduced installation times due to wireless data transmission
- Long transmission range and high gain reserve guarantee flexibility and reliability
- Reduced installation costs by eliminating cables
- Excellent ambient light safety and electromagnetic compatibility (EMC) ensure accurate and reliable data transmission
- Increased system speed with fast data transmission
- Fast and easy assembly with integrated 3-point mounting bracket

Ordering information

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

- **Ambient temperature, operation:** –5 °C ... +50 °C

Communication interface	Transmission range	Data transmission rate	Frequency	Type	Part no.
DeviceNet™, CANopen, Serial	0.2 m ... 200 m	1 Mbit/s, 0.5 Mbit/s	F1	ISD300-5211	6027231
			F2	ISD300-5212	6027232
PROFIBUS DP, Serial	0.2 m ... 120 m	1.5 Mbit/s	F1	ISD300-1111	6024761
			F2	ISD300-1112	6024837
	0.2 m ... 200 m	1.5 Mbit/s	F1	ISD300-1211	6024759
			F2	ISD300-1212	6024760
	0.2 m ... 300 m	1.5 Mbit/s	F1	ISD300-1311	6028213
			F2	ISD300-1312	6028214

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

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