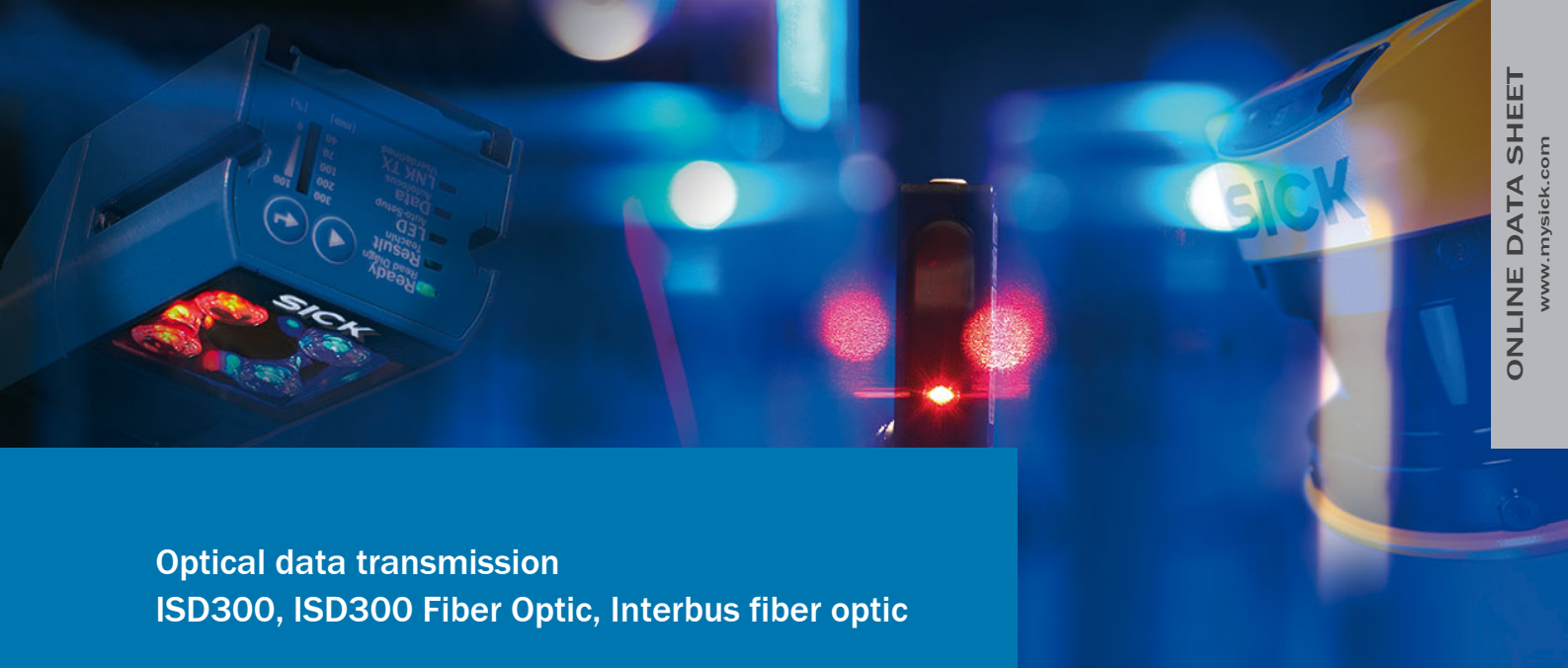




## Optical data transmission ISD300, ISD300 Fiber Optic, Interbus fiber optic

ISD300-3211



**Model Name** > [ISD300-3211](#)  
**Part No.** > [6024850](#)



#### At a glance

- Interbus interface
- Push button displays opposing device's reception level for simple one man alignment
- Up to 2 Mbit/s transfer rate
- Integrated 3-point mounting bracket
- Connection for fiber-optic cables

#### Your benefits

- Non-contact system eliminates wear and tear thus guaranteeing high machine uptime and significantly reduced maintenance costs
- Electronic alignment methods significantly reduce installation times thus saving costs
- Very long scanning range ensures high gain reserve even in challenging environmental conditions
- Reduced installation costs by eliminating cables
- Excellent ambient light immunity and EMC compatibility ensure accurate and reliable data transmission
- Increased system speed with fast data transmission
- Fast and easy assembly with integrated 3-point mounting bracket reduces installation time and costs
- Fast and easy connection using fiber-optic cables.



#### Performance

|                                  |                        |
|----------------------------------|------------------------|
| Light source:                    | LED, infrared (880 nm) |
| Heating:                         | -                      |
| Typ. light spot size (distance): | 1.75 m (at 100 m)      |
| Transmission range:              | 0.2 m ... 200 m        |
| Field of view:                   | Ca. $\pm 0.5^\circ$    |

#### Interfaces

|                                |                                                                             |
|--------------------------------|-----------------------------------------------------------------------------|
| Data transmission rate:        | 2 Mbit/s                                                                    |
| Output type:                   | 0 V ... 2 V: interference-free operation<br>VS -2 V: reduced system reserve |
| Switching input:               | 0 V ... 2 V: sender deactivated                                             |
| Signal delay:                  | $\leq 2.5 \mu\text{s}$                                                      |
| Data interface <sup>1)</sup> : | Interbus fiber optic                                                        |

<sup>1)</sup> RS-485 on request

## Mechanics/electronics

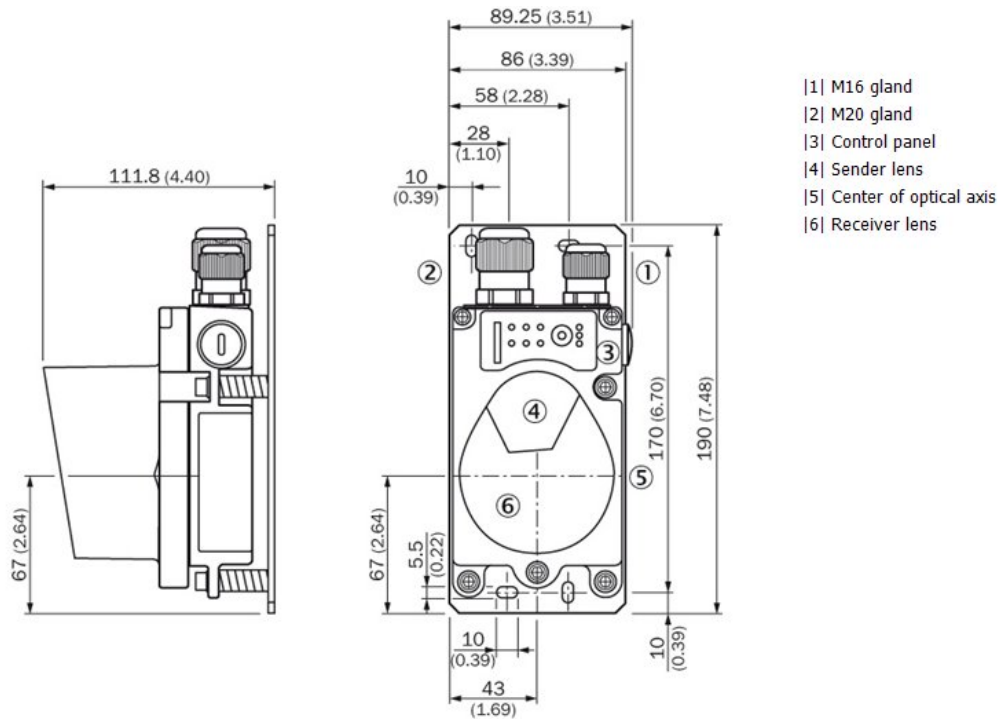
|                    |                   |
|--------------------|-------------------|
| Supply voltage Vs: | DC 18 V ... 30 V  |
| Power consumption: | ≤ 0.2 mA          |
| Weight:            | Ca. 1.2 kg        |
| Housing material:  | Metal             |
| Connection type:   | Fiber optic (LWL) |
| Frequency:         | 1                 |

## Ambient data

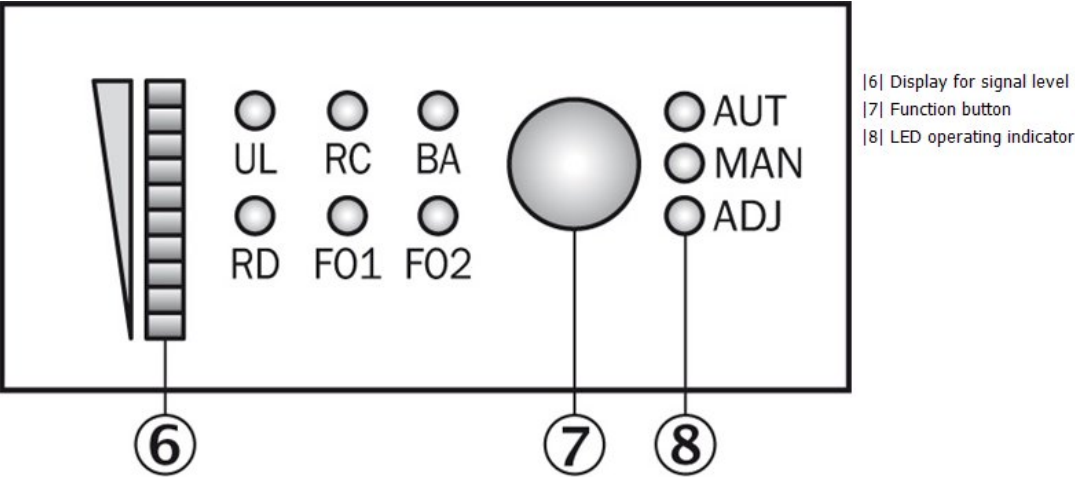
|                                      |                                         |
|--------------------------------------|-----------------------------------------|
| Enclosure rating:                    | IP 65                                   |
| Protection class:                    | I                                       |
| Ambient temperature:                 | Storage: -30 ... 70 °C                  |
| Max. rel. humidity (not condensing): | 90 %, non-condensing                    |
| Ambient operating temperature:       | -5 °C ... 50 °C                         |
| Electromagnetic compatibility (EMC): | EN 61000-6-2/EN 61000-6-4 <sup>1)</sup> |

<sup>1)</sup> This is a Class A device. This device can cause radio interference in living quarters.

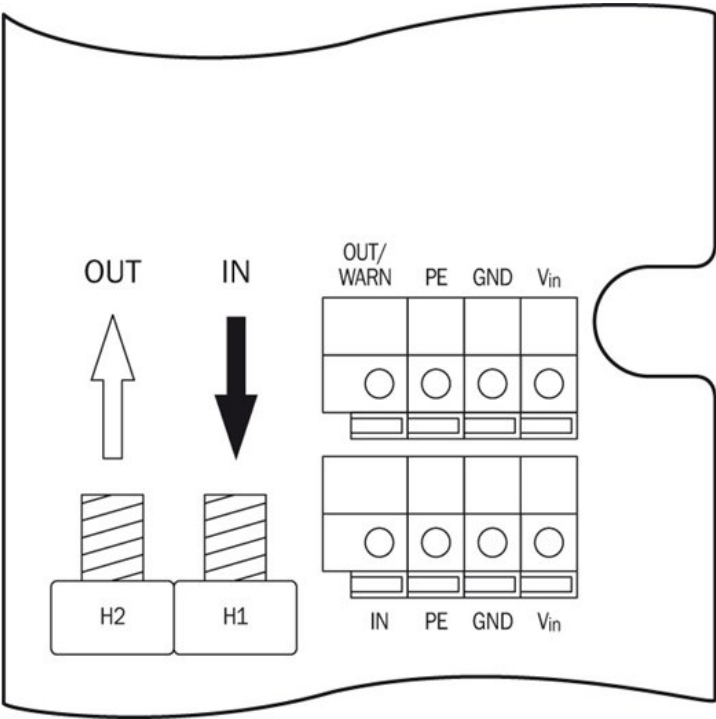
## Dimensional drawing



Adjustments



Connection type



Connection diagram

Terminals, general

|                 |               |
|-----------------|---------------|
| V <sub>in</sub> | L+            |
| GND             | M             |
| PE              | Shield        |
| OUT/WARN        | Q             |
| IN              | Switch. input |

Fiber-optic socket, Interbus

|    |          |
|----|----------|
| H1 | Receiver |
| H2 | Sender   |

**Australia**

Phone +61 3 9457 0600  
1800 334 802 – tollfree  
E-Mail sales@sick.com.au

**Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

**Brasil**

Phone +55 11 3215-4900  
E-Mail sac@sick.com.br

**Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

**Ceská Republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

**China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

**Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

**Deutschland**

Phone +49 211 5301-301  
E-Mail kundenservice@sick.de

**España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

**France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

**Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

**India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

**Israel**

Phone +972-4-6801000  
E-Mail info@sick-sensors.com

**Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

**Japan**

Phone +81 (0)3 3358 1341  
E-Mail support@sick.jp

**Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

**Nederlands**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

**Norge**

Phone +47 67 81 50 00  
E-Mail austefjord@sick.no

**Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

**Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

**România**

Phone +40 356 171 120  
E-Mail office@sick.ro

**Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

**Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

**Singapore**

Phone +65 6744 3732  
E-Mail admin@sicksgp.com.sg

**Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

**South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

**South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

**Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

**Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

**Taiwan**

Phone +886-2-2375-6288  
E-Mail sales@sick.com.tw

**Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

**United Arab Emirates**

Phone +971 (0) 4 8865 878  
E-Mail info@sick.ae

**USA/México**

Phone +1(952) 941-6780  
1 800-325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)