



Optical data transmission  
ISD300, ISD300 Interbus/RS-422, RS-422/Interbus

ISD300-2111



**Model Name** > [ISD300-2111](#)  
**Part No.** > [6024844](#)



**At a glance**

- Interbus interface
- Push button displays opposing device's reception level for simple one man alignment
- Up to 500 kbit/s transfer rate
- Integrated 3-point mounting bracket

**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 integration into Interbus or RS-422 network without an additional converter card



**Performance**

Light source:	LED, infrared (880 nm)
Heating:	-
Typ. light spot size (distance):	1.75 m (at 100 m)
Transmission range:	0.2 m ... 120 m
Field of view:	Ca. ± 0.5 °

**Interfaces**

Data transmission rate:	0.5 Mbit/s
Output type:	0 V ... 2 V: interference-free operation VS -2 V: reduced system reserve
Switching input:	0 V ... 2 V: sender deactivated
Signal delay:	≤ 1.5 µs
Data interface <sup>1)</sup> :	RS-422/Interbus

1) RS-485 on request

## Mechanics/electronics

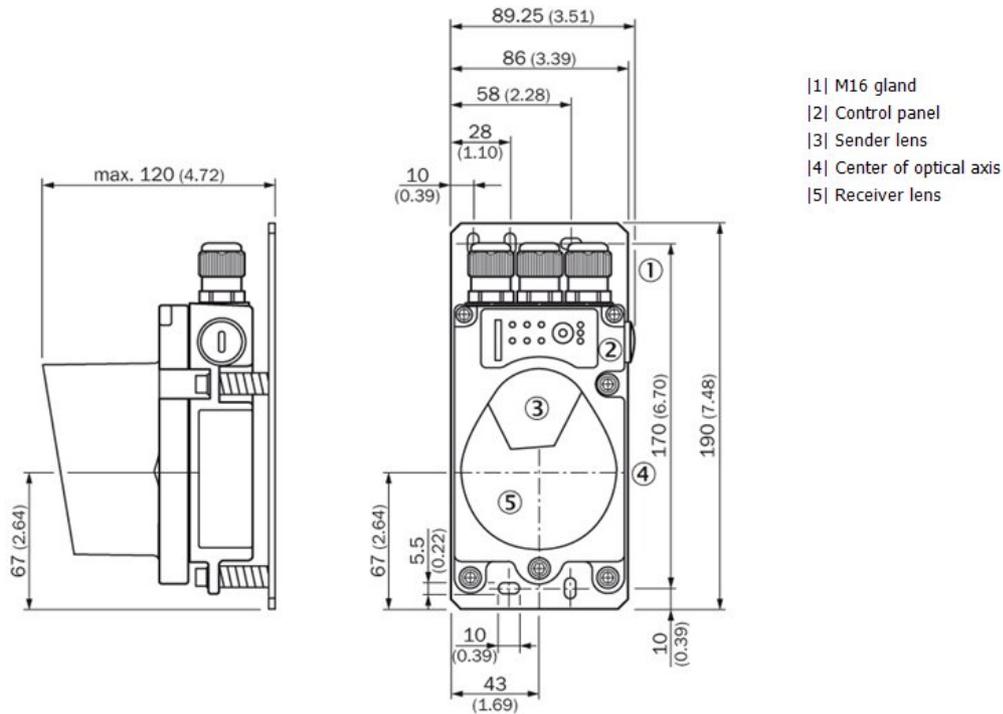
Supply voltage $V_s$ :	DC 18 V ... 30 V
Power consumption:	$\leq 0.2$ mA
Weight:	Ca. 1.2 kg
Housing material:	Metal
Connection type:	Terminals
Frequency:	1

## Ambient data

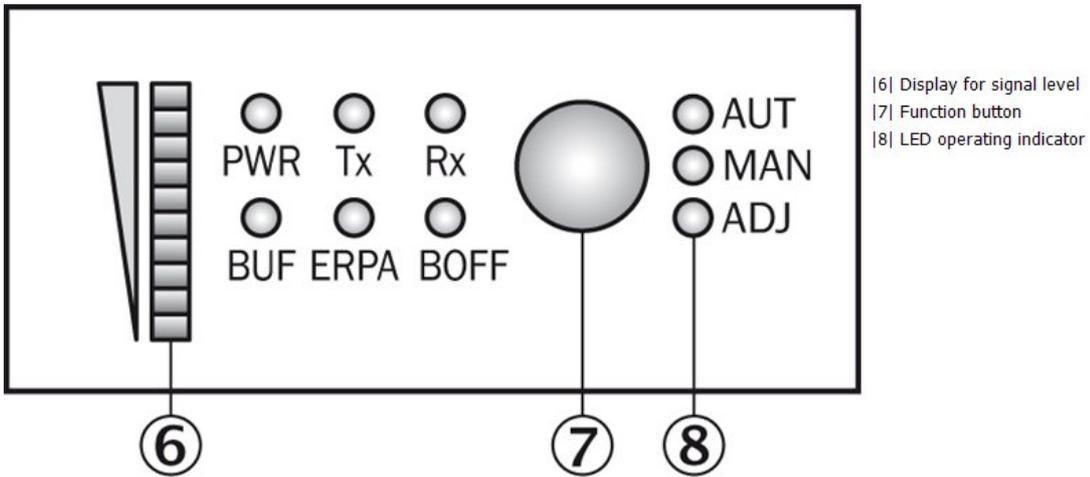
Enclosure rating:	IP 65
Protection class:	I
Ambient temperature:	Storage: -30 ... 70 °C
Max. rel. humidity (not condensing):	90 %, non-condensing
Ambient operating temperature:	-5 °C ... 50 °C
Electromagnetic compatibility (EMC):	EN 61000-6-2/EN 61000-6-4 <sup>1)</sup>

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

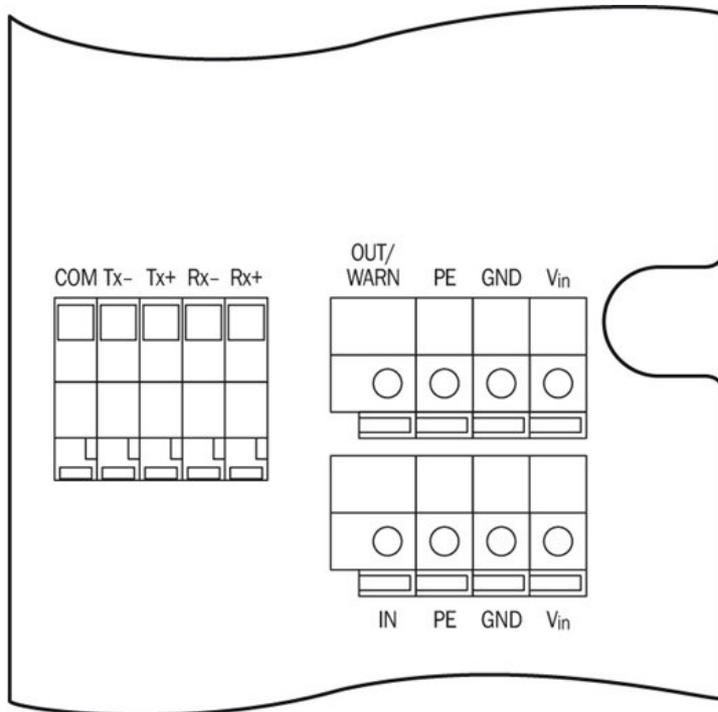
## Dimensional drawing



## Adjustments



## Connection type



## Connection diagram

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### Terminals, general

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

### Terminals, RS-422/Interbus

<b>D01/DI2, Rx+</b>	Receiver wire
<b>D01/DI2, Rx-</b>	Receiver wire
<b>DI1/D02, Tx+</b>	Send wire
<b>DI1/D02, Tx-</b>	Send wire
<b>COM</b>	Pot. balance

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