



Optical data transmission ISD300, ISD300 PROFIBUS/RS-485, RS- 485/PROFIBUS DP

ISD300-1112



Model Name > [ISD300-1112](#)
Part No. > [6024837](#)



At a glance

- PROFIBUS interface
- Push button displays opposing device's reception level for simple one man alignment
- Up to 1.5 Mbit/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 integration into PROFIBUS network without additional converter cards
- Fast and easy assembly with integrated 3-point mounting bracket reduces installation time and costs



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. $\pm 0.5^\circ$

Interfaces

Data transmission rate:	1.5 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:	$\leq 1.5 \mu\text{s} + 1 \text{ Tbit}$
Data interface ¹⁾ :	RS-485/PROFIBUS DP

¹⁾ RS-485 on request

Mechanics/electronics

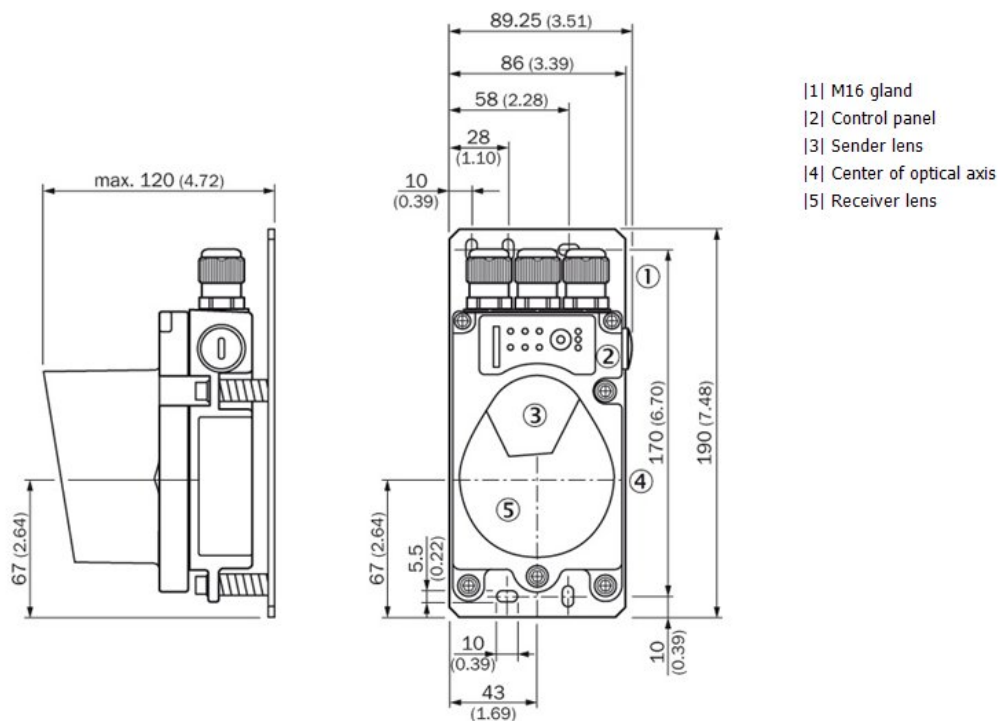
Supply voltage V_s :	DC 18 V ... 30 V
Power consumption:	≤ 0.2 mA
Weight:	Ca. 1.2 kg
Housing material:	Metal
Connection type:	Terminals
Frequency:	2

Ambient data

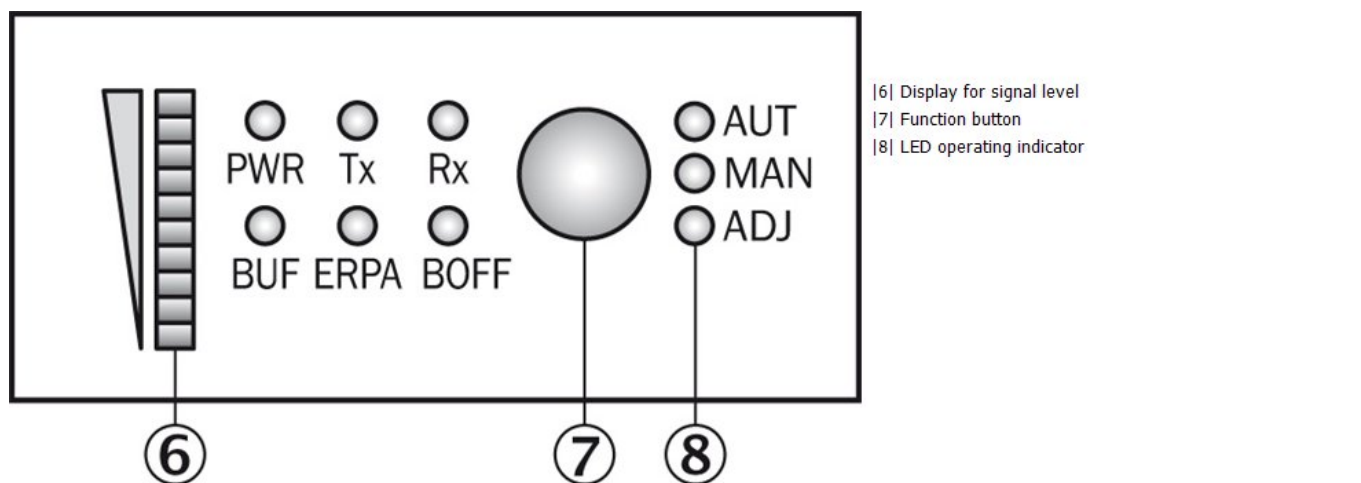
Enclosure rating:	IP 65
Protection class:	I
Ambient temperature:	Storage: -30 ... 70 °C
Max. rel. humidity (not condensing):	90 %, non-condensing
Ambient operating temperature:	-5 °C ... 50 °C
Electromagnetic compatibility (EMC):	EN 61000-6-2/EN 61000-6-4 ¹⁾

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

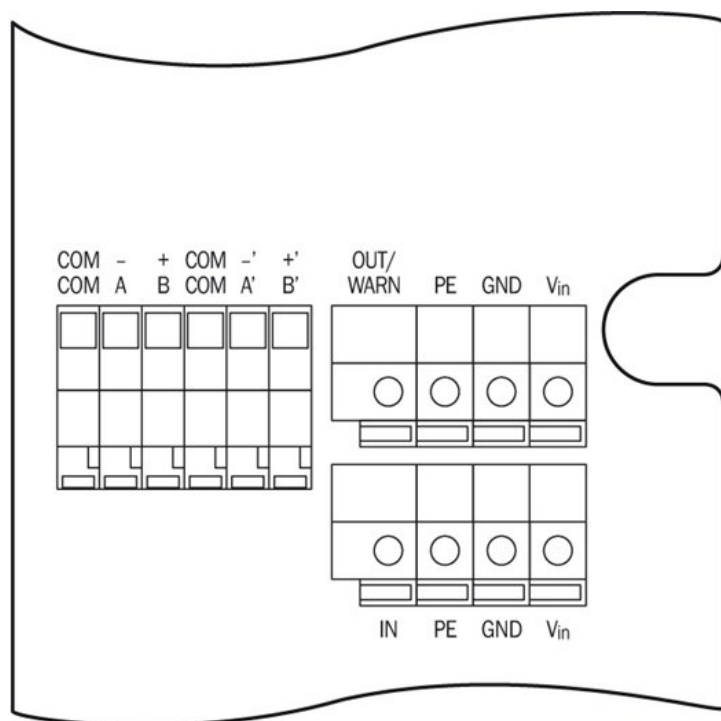
Dimensional drawing



Adjustments



Connection type



Connection diagram

Terminals, general

V_{in}	L+
GND	M
PE	Shield
OUT/WARN	Q
IN	Switch. input

Terminals, PROFIBUS

A, -	A wire
B, +	B wire
COM	Pot. balance
A', -'	A wire
B', +'	B wire

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