



Optical data transmission ISD300

ISD300-6212



Model Name > [ISD300-6212](#)
Part No. > [6028693](#)



At a glance

- Ethernet interface
- Push button displays opposing device's reception level for simple one man alignment
- Up to 2 Mbit/s transfer rate
- Protocol-independent
- RJ 45 plug connection
- 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 Ethernet network without additional converter cards



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 VS -2 V: reduced system reserve
Switching input:	0 V ... 2 V: sender deactivated
Data interface ¹⁾ :	Ethernet

1) RS-485 on request

Mechanics/electronics

Supply voltage V_s :	DC 18 V ... 30 V
Power consumption:	≤ 0.2 A
Weight:	Ca. 1.2 kg
Housing material:	Metal
Electrical connection:	Terminals
Frequency:	F2 ¹⁾

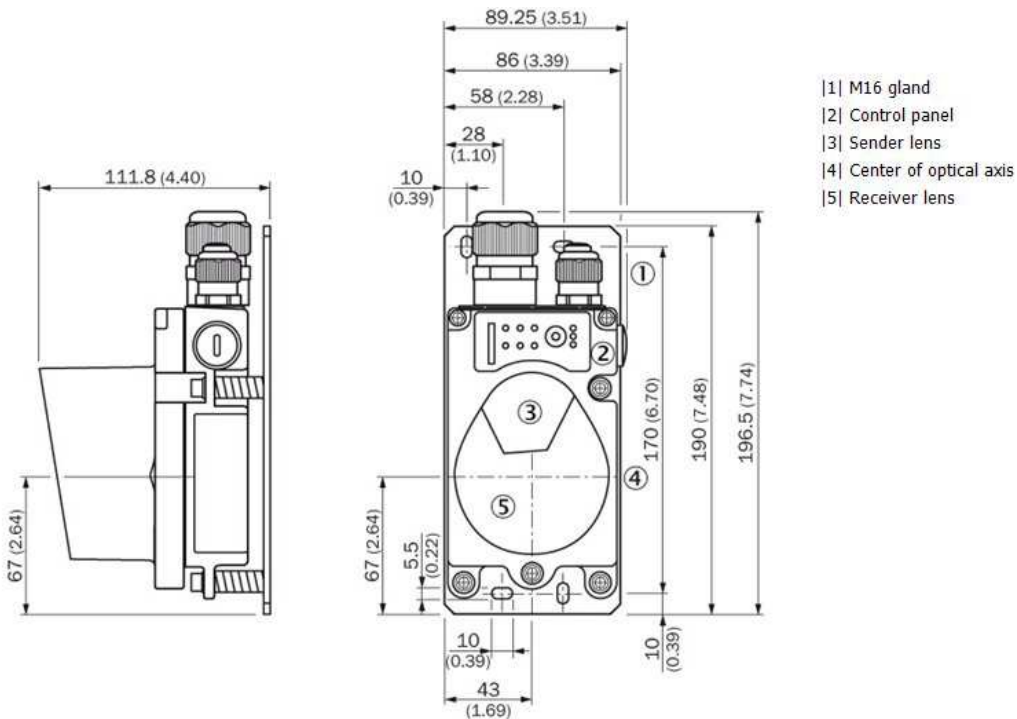
1) A pair of devices with numbers ending in 1 and 2 are required to create a data transfer section.

Ambient data

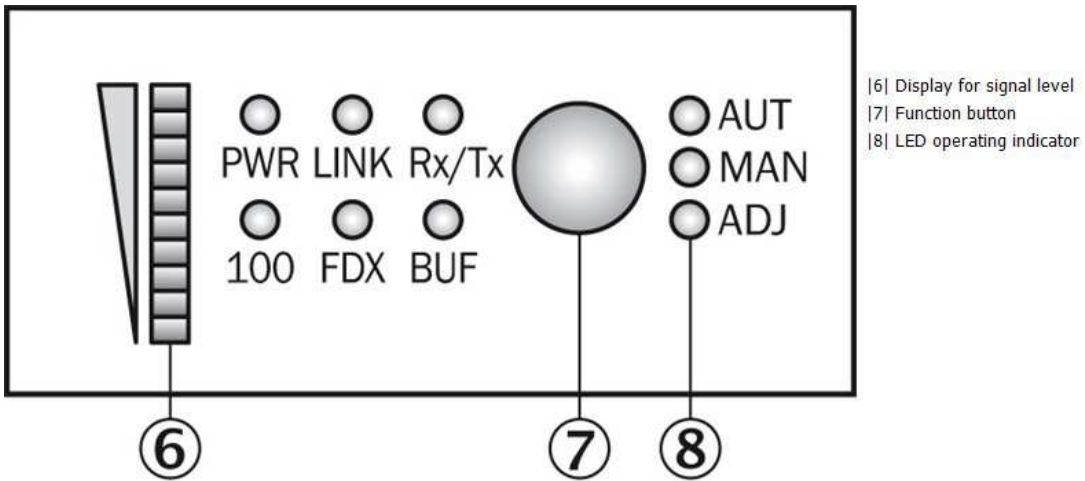
Enclosure rating:	IP 65
Protection class:	I
Electromagnetic compatibility (EMC):	EN 61000-6-2/EN 61000-6-4 ¹⁾
Ambient temperature:	Storage: -30 ... +70 °C
Ambient temperature operation:	-5 °C ... +50 °C
Max. rel. humidity (not condensing):	90 %, non-condensing

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

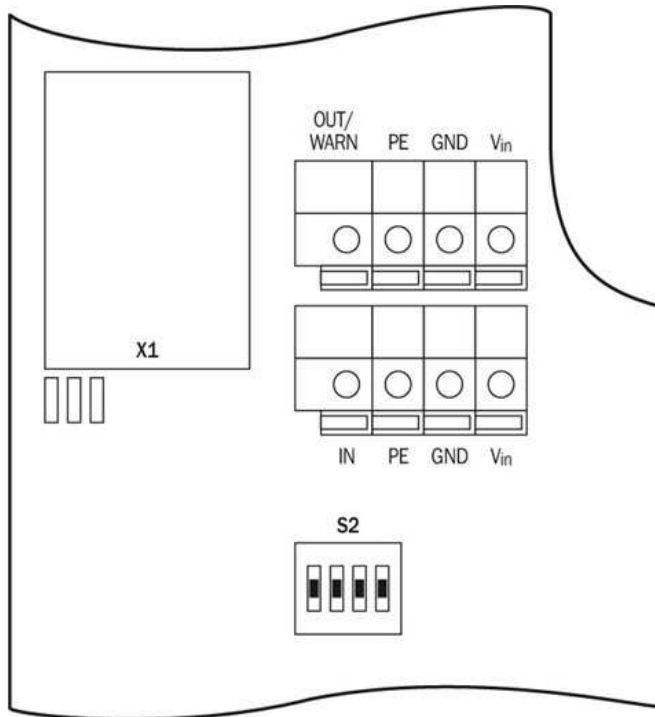
Dimensional drawing



Adjustments



Connection type



Connection diagram

Terminals, general

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

Socket Function

X1	RJ-45 socket for 10Base-T or 100Base-TX	
Switch	Position	Function
S2.1	ON	Autospace negotiation active (default)
	OFF	Autospace negotiation deactivated
S2.2	ON	100 Mbit
	OFF	10 Mbit (default)
S2.3	ON	Full duplex
	OFF	Half duplex (default)
S2.4	ON	Reserved
	OFF	Reserved (default)

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