



Optical data transmission ISD400, ISD400 Core, PROFIBUS DP

ISD400-1121



Model Name > [ISD400-1121](#)
Part No. > [1043511](#)



At a glance

- Adjustable carrier frequency F1/F2
- PROFIBUS interface
- Connection and setup without opening device
- Simple installation thanks to optical and electronic alignment help
- Up to 3 Mbit/s optical transfer rate
- Integrated repeater

Your benefits

- An integrated optical and electronic alignment aid supports fast and cost efficient installation
- The electronically adjustable carrier frequency allows each ISD400 to be used as either sender or receiver unit, thus reducing stock keeping costs
- Large operating temperature range guarantees highest machine up times - even in cold stores
- Integrated PROFIBUS repeater allows a cost-efficient multimaster configuration such as PROFIBUS FMS
- Increased system speed with fast data transmission



Performance

Light source:	LED, infrared (880 nm)
Heating:	✓
Typ. light spot size (distance):	1.75 m (at 100 m)
Transmission range:	0.2 m ... 180 m
Field of view:	Ca. ± 0.5 °

Interfaces

Data transmission rate:	3 Mbit/s
Output type:	24 V DC (VS - 2.25 V DC ... VS)
Switching input:	VS: sender deactivated
Signal delay:	≤ 1 µs + 2 Tbit ¹⁾
Data interface:	PROFIBUS DP

¹⁾ 1 µs + 2 Tbit only for PROFIBUS

Mechanics/electronics

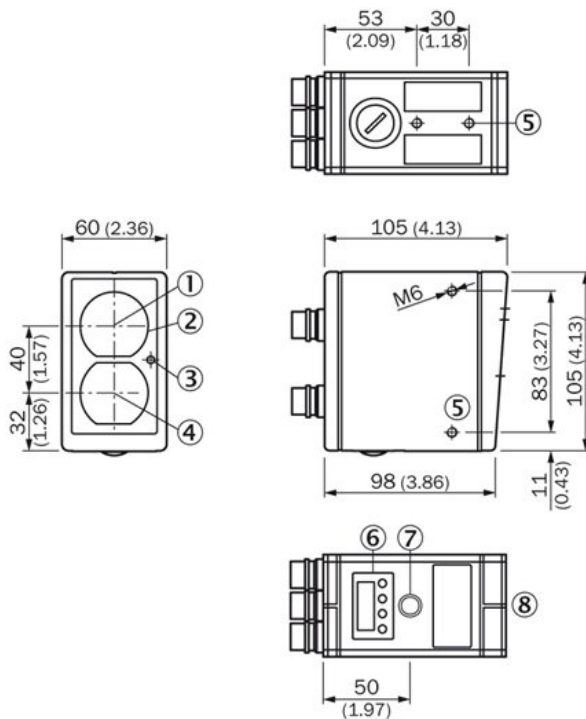
Supply voltage V_s :	DC 18 V ... 30 V
Power consumption:	≤ 0.8 A
Weight:	Ca. 900 g
Housing material:	Metal
Connection type:	Connector M12, 4-pin

Ambient data

Enclosure rating:	IP 65
Protection class:	III
Max. rel. humidity (not condensing):	90 %, non-condensing
Ambient operating temperature:	-40 °C ... 55 °C
Electromagnetic compatibility (EMC):	EN 61000-6-2/EN 61000-6-4 ¹⁾
Storage temperature:	-40 °C ... 75 °C

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

Dimensional drawing



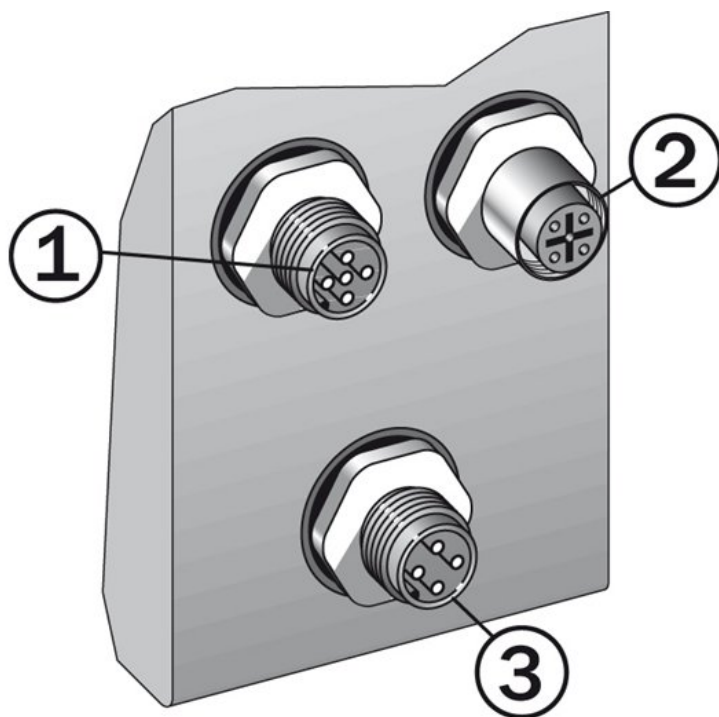
- [1] Optical axis, sender
- [2] View finder lens
- [3] Function indicator/level warning
- [4] Optical axis, receiver
- [5] Threaded mounting hole M6
- [6] Liquid crystal display with function keys
- [7] Optical adjustment aid
- [8] Alignment sight

Adjustments

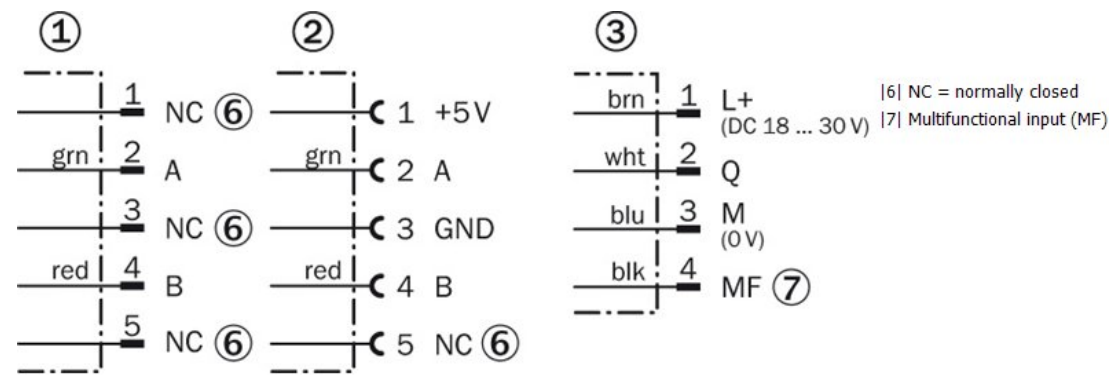


[6] Liquid crystal display with funktion keys

Connection type



Connection diagram



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