



## Optical data transmission ISD400, ISD400 Core

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**

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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**

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Data transmission rate:	3 Mbit/s
Output type:	HIGH: U <sub>v</sub> - 3 V, LOW: < 2 V
Switching input:	V <sub>s</sub> : sender deactivated
Signal delay:	≤ 1 μs + 2 Tbit <sup>1)</sup>
Data interface:	PROFIBUS DP

<sup>1)</sup> 1 μs + 2 Tbit only for PROFIBUS

## Mechanics/electronics

Supply voltage Vs:	DC 18 V ... 30 V
Weight:	Ca. 900 g
Housing material:	Metal
Connection type:	Connector, M12, 4-pin
Power consumption::	≤ 25 W <sup>1) 2)</sup>

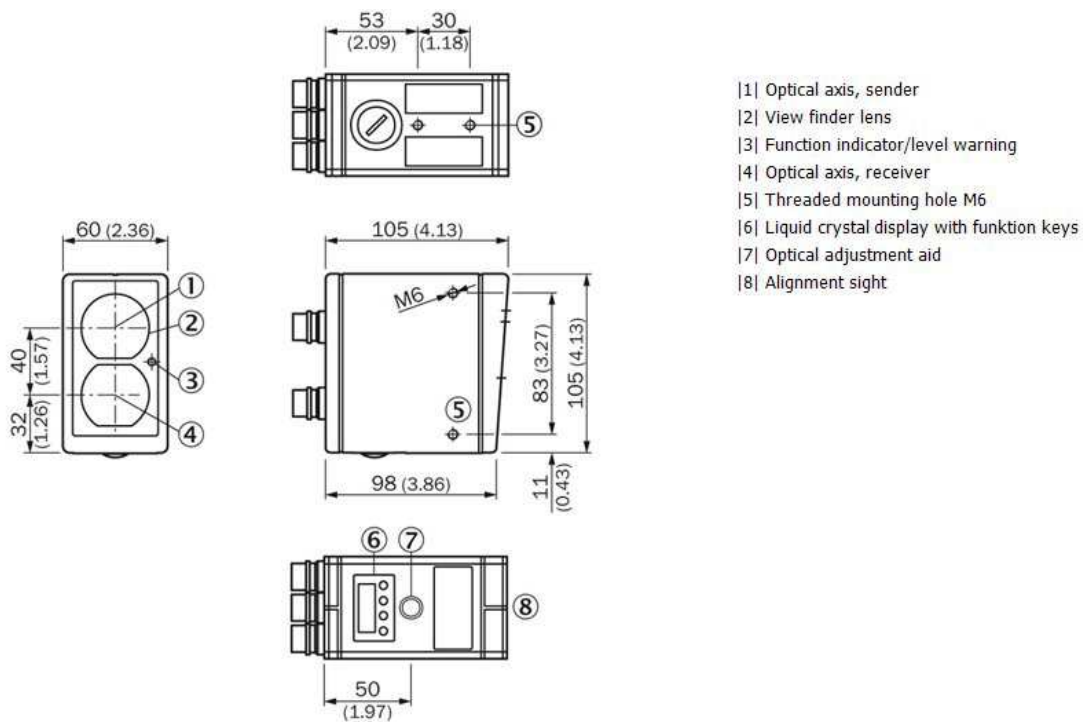
<sup>1)</sup> Without load <sup>2)</sup> At 24 V

## Ambient data

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

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

## Dimensional drawing

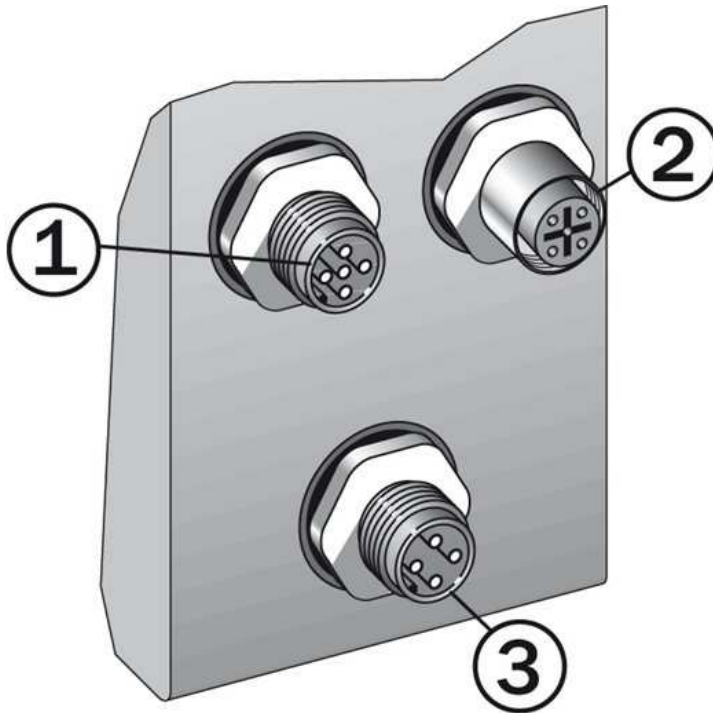


## Adjustments

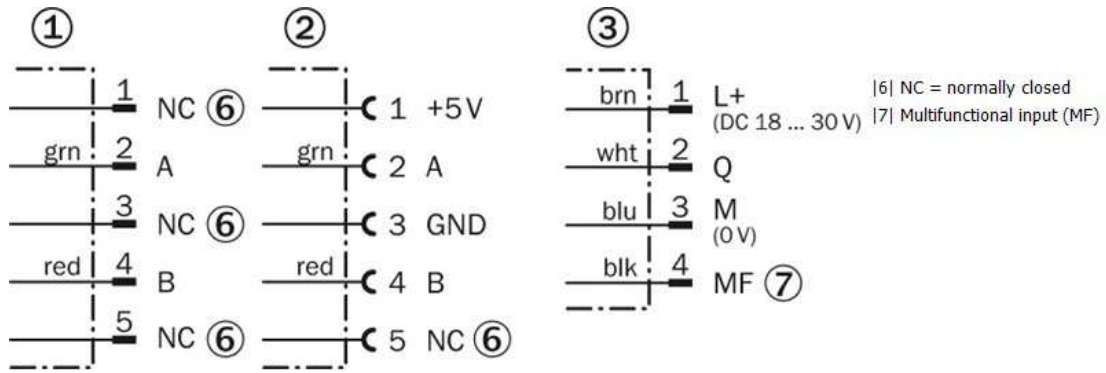


|6| Liquid crystal display with funktion keys

## Connection type



## Connection diagram



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