



Optical data transmission  
ISD280, RS-422/-485  
PROFIBUS DP

ISD280-1121S05



**Model Name** > ISD280-1121S05  
**Part No.** > 1027638



## Performance

|                                  |                       |
|----------------------------------|-----------------------|
| Light source:                    | Infrared LED (860 nm) |
| Heating:                         | ✓                     |
| Typ. light spot size (distance): | 1.4 m (at 100 m)      |
| Transmission range:              | 0.2 m ... 150 m       |
| Field of view:                   | Ca. $\pm 0.4^\circ$   |

## Interfaces

|                         |                                                                 |
|-------------------------|-----------------------------------------------------------------|
| Data transmission rate: | 1.5 MBaud                                                       |
| Output type:            | VS - 2 V: interference-free operation, I <sub>out</sub> = 20 mA |
| Switching input:        | VS: sender deactivated                                          |
| Signal delay:           | $\leq 2 \mu\text{s}$                                            |
| Data interface:         | RS-422/-485<br>PROFIBUS DP                                      |

## Mechanics/electronics

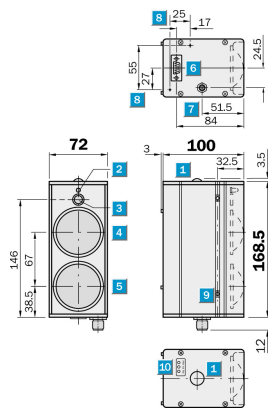
|                                 |                                                                         |
|---------------------------------|-------------------------------------------------------------------------|
| Supply voltage V <sub>s</sub> : | DC 24 V, +20%/-5% (with heating), DC 24 V, $\pm 20\%$ (without heating) |
| Power consumption:              | With heating $\leq 2.5$ A, Without heating $\leq 0.4$ A                 |
| Weight:                         | 1 kg                                                                    |
| Housing material:               | Metal                                                                   |
| Connection type:                | Connector, 3 x M12, 5-pin                                               |

## Ambient data

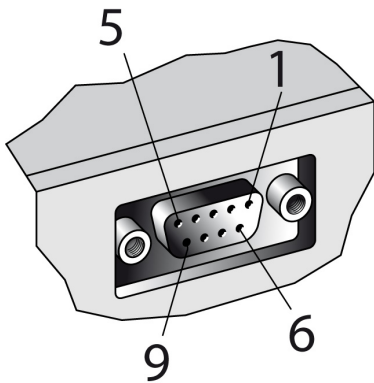
|                                      |                                                                                                       |
|--------------------------------------|-------------------------------------------------------------------------------------------------------|
| Enclosure rating:                    | IP 54                                                                                                 |
| Protection class:                    | III                                                                                                   |
| Ambient temperature:                 | Operation with heating: -38 ... 40 °C, Operation without heating: 0 ... 40 °C, Storage: -20 ... 70 °C |
| Max. rel. humidity (not condensing): | $\pm 90\%$ , non-condensing                                                                           |
| Electromagnetic compatibility (EMC): | EN 61000-6-2/EN 61000-6-4                                                                             |

<sup>1)</sup> 1.5 MBd to max. +40 °C,  $\leq 0.5$  MBd to max. +55 °C

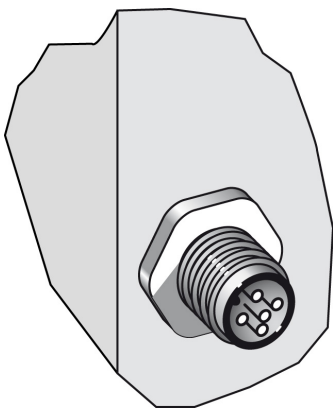
Dimensional drawing



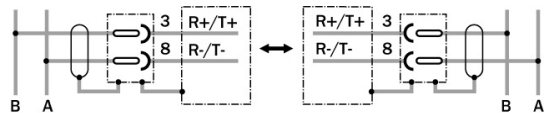
Connection type, data interface



Connection type, connector



Data interface Profibus (L2-DP)



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