



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. ± 0.4 °

**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: ≤ 2 μs  
Data interface: RS-422/-485  
PROFIBUS DP

**Mechanics/electronics**

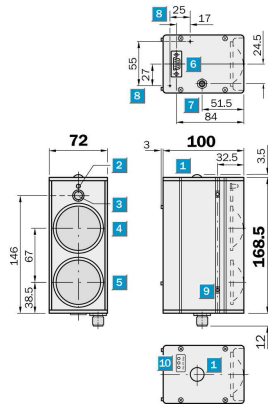
Supply voltage Vs: DC 24 V, +20%/-5% (with heating), DC 24 V, ±20 % (without heating)  
Power consumption: With heating ≤ 2.5 A, Without heating ≤ 0.4 A  
Weight: 1 kg  
Housing material: Metal  
Connection type: Connector, 3 x M12, 5-pin

**Ambient data**

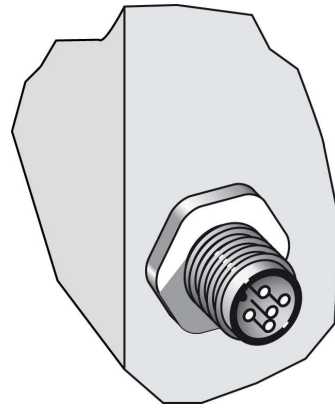
Enclosure rating: IP 54  
Protection class: III  
Electromagnetic compatibility (EMC): EN 61000-6-2/EN 61000-6-4  
Ambient temperature: Operation with heating: -38 ... 40 °C, Operation without heating: 0 ... 40 °C, Storage: -20 ... 70 °C<sup>1)</sup>  
Max. rel. humidity (not condensing): ± 90 %, non-condensing

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

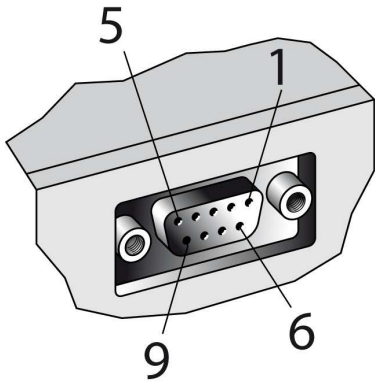
**Dimensional drawing**



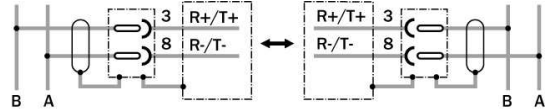
**Connection type, connector**



**Connection type, data interface**



**Data interface Profibus (L2-DP)**



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