



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

ISD280-1112



Model Name > ISD280-1112
Part No. > 1017047



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 _{out} = 20 mA
Switching input:	VS: sender deactivated
Signal delay:	$\leq 2 \mu\text{s}$
Data interface:	RS-422/-485 PROFIBUS DP

Mechanics/electronics

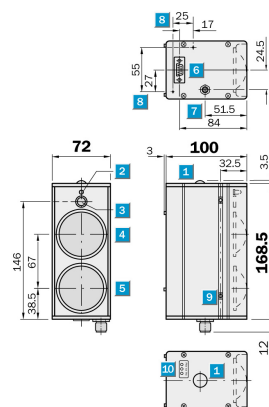
Supply voltage V _s :	DC 24 V, +20%/-5% (with heating), DC 24 V, $\pm 20\%$ (without heating)
Power consumption:	With heating ≤ 2.5 A, Without heating ≤ 0.4 A
Weight:	1 kg
Housing material:	Metal
Connection type:	Socket, Sub-D, 9-pin, Connector, M12, 5-pin

Ambient data

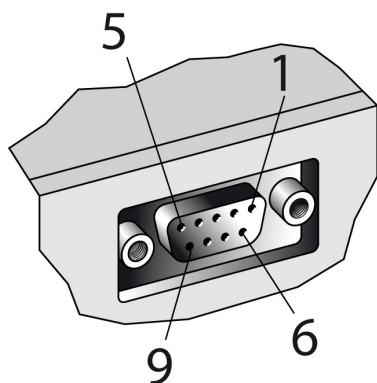
Enclosure rating:	IP 54
Protection class:	III
Ambient temperature:	Operation with heating: -38 ... 40 °C, Operation without heating: 0 ... 40 °C, Storage: -20 ... 70 °C
Max. rel. humidity (not condensing):	$\pm 90\%$, non-condensing
Electromagnetic compatibility (EMC):	EN 61000-6-2/EN 61000-6-4

¹⁾ 1.5 MBd to max. +40 °C, ≤ 0.5 MBd to max. +55 °C

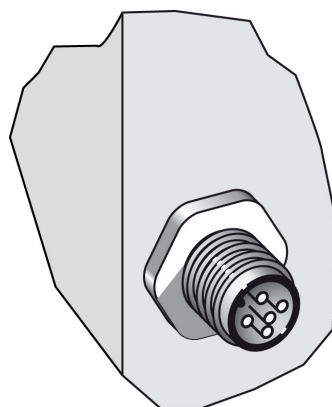
Dimensional drawing



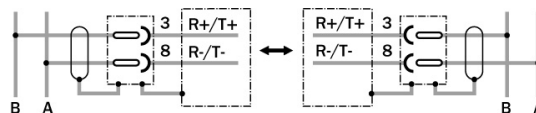
Connection type, data interface



Connection type, connector



Data interface Profibus (L2-DP)



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