



Laser scanners
JEF5xx / JEF500 / Indoor / Short Range

JEF500-00000



Model Name > **JEF500-00000**
Part No. > **1056365**

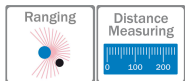


At a glance

- 2D and 3D laser measurement sensor
- Multiple I/O and interfacing
- Large working range without any additional focal adjustments
- Output of reflectivity data

Your benefits

- Simple 3D measurement with one sensor
- Large area can be measured with one sensor
- No additional illumination needed



Features

Field of application:	Indoor
Version:	Short Range
Connection type:	Ethernet
Reading field:	Front
Light source:	Visible red light (650 nm)
MTBF:	40,000 h
Laser class:	2 (EN 60825-1 (A2:2001-03))
Field of view:	≤ 45 °
Scanning frequency:	600 Hz ... 800 Hz
Angular resolution:	1 °
Operating range:	0.4 m ... 2 m
Max. range with 10 % reflectivity:	1.2 m

Performance

Response time:	≥ 1.125 ms
Detectable object shape:	Almost any
Systematic error ¹⁾ :	± 25 mm
Statistical error ²⁾ :	± 25 mm

^{1) 2)} Typical value; actual value depends on environmental conditions.

Interfaces

Serial (RS-232, RS-422/485):	✓
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Remark (Serial (RS-232, RS-422/485)):	AUX (only RS-232)
Function (Serial (RS-232, RS-422/485)):	Host, AUX
Data transmission rate (Serial (RS-232, RS-422/485)):	2,400 Baud ... 115 kBaud, AUX: 57.6 kBaud
Ethernet:	✓
Function (Ethernet):	Host, AUX
Data transmission rate (Ethernet):	10/100 Mbit
Protocol (Ethernet):	TCP/IP
CAN bus:	-
PROFIBUS DP:	-
PROFINET:	-
DeviceNet:	-
Switching inputs:	2
Switching outputs:	2
Optical indicators:	6 LEDs (Ready, laser, Data, CAN, LNK TX)
Memory card:	MicroSD memory card (flash card) 512 MB, optional

Mechanics/electronics

Electrical connection:	2 x M12 cylindrical connectors (17-pin plug, 4-pin socket) on swivel connector
Operating voltage:	18 V DC ... 30 V DC
Power consumption:	8.5 W
Housing:	Die-cast aluminum
Housing color:	Light blue (RAL 5012)
Enclosure rating:	IP 65 (EN 60529)
Protection class:	III (EN 61140)
Weight:	250 g
Dimensions:	61 mm x 96 mm x 38 mm ¹⁾

¹⁾ Swivel connector is 15 mm longer

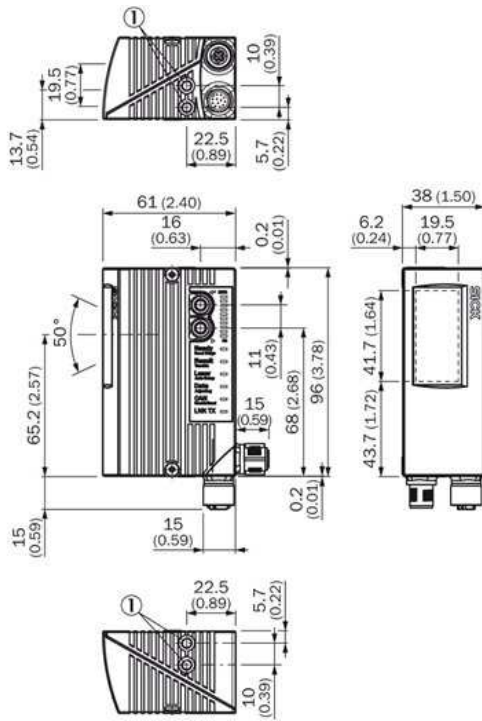
Ambient data

Electromagnetic compatibility (EMC):	EN 61000-6-1 (2001-10)/EN 61000-6-2:2005
Vibration resistance:	EN 60068-2-6 (1995)
Shock resistance:	EN 60068-2-27 (1993)
Ambient operating temperature:	0 °C ... +40 °C
Storage temperature:	-20 °C ... +70 °C
Permissible relative humidity:	± 90 %, non-condensing
Ambient light immunity:	2,000 lx

General notes

Note on use:	Not suitable for personnel protection
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Dimensional drawing



|1| M5 threaded mounting hole, 5.5 mm deep

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