



Laser scanners
JEF5xx / JEF500 / Indoor / Short Range

JEF500-60000



Model Name > [JEF500-60000](#)
Part No. > [1056366](#)



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:	Oscillating mirror
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
Oscillating mirror functions:	Oscillating (variable or fixed amplitude)
Oscillation frequency:	0.5 Hz ... 6.25 Hz
Angle of deflection:	-5 ° ... 35 °

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):	✓
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 M12 cylindrical connectors (17-pin plug, 4-pin socket) on swivel connector
Operating voltage:	18 V DC ... 30 V DC
Power consumption:	9.5 W
Housing:	Die-cast aluminum
Housing color:	Light blue (RAL 5012)
Enclosure rating:	IP 65 (EN 60529)
Protection class:	III (EN 61140)
Weight:	320 g
Dimensions:	95 mm x 96 mm x 41 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
Ambient light safety:	2,000 lx
Permissible relative humidity:	± 90 %, non-condensing

General notes

Note on use:	Not suitable for personnel protection
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