

Laser Measurement Technology  
LMS2xx / LMS221 / Outdoor / Mid-Range

LMS221-30206



**Model Name** LMS221-30206  
**Part Number** 1018022



**At a glance**

- The large variety of versions available offer tailor-made solutions for indoor and outdoor tasks
- Non-contact optical measurement even over long distances
- Background or substrate has no effect on measurement
- Integrated field monitoring
- Rugged housing
- Various applications, e.g. object measurement, position measurement, navigation and area monitoring

**Your benefits**

- High target object speed possible
- Measurement objects require no special reflectivity properties
- Objects require no reflectors or marking
- Target object in any position
- Measurement data are available in real time and can be used for further calculation or control tasks
- No illumination of target object necessary
- Simple installation and commissioning
- Any mounting position



**Features**

Type:	Mid-Range
Field of application:	Outdoor
Light source:	Infrared (905 nm)
Laser class:	1 (EN/IEC 60825-1), Eye-safe
Field of view:	180 °
Scanning frequency:	75 Hz
Operating range:	0 m ... 80 m
Max. range with 10 % reflectivity:	30 m
Angular resolution:	0.25 °, 0.5 °, 1 °
Heating:	Yes
Fog correction:	Yes
MTBF:	50,000 h
Resolution:	1 mm

## Performance

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Detectable object shape:	Almost any
Systematic error:	± 35 mm
Statistical error:	10 mm

## Interfaces

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Serial (RS-232, RS-422):	✓
Function (Serial (RS-232, RS-422)):	Host, AUX
Data transmission rate (Serial (RS-232, RS-422)):	RS-232: 9.6/19.2 kBd and RS-422: 9.6/19.2/ 38.4/ 500 kBd
Ethernet:	-
CAN-Bus:	-
PROFIBUS:	-
PROFINET:	-
DeviceNet:	-
Switching inputs:	1
Switching outputs:	3
Optical indicators:	0

## Mechanics/electronics

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Electrical connection:	1 16 pin plug
Operating voltage:	24 V DC
Power consumption:	30 W, + 140 W heating
Housing color:	Gray (RAL 7032)
Enclosure rating:	IP 67
Protection class:	2, insulated
Weight:	9 kg
Dimensions:	241 mm x 351 mm x 265 mm
Housing:	Base plate aluminum diecast Covering PU

## Ambient data

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Object remission:	1.8 % ... 10,000 %
Electromagnetic compatibility (EMC):	EN 61000-6-2/EN 61000-6-3/A11 (2004-07)
Vibration resistance:	IEC 68
Shock resistance:	IEC 68
Ambient operating temperature:	-30 °C ... 50 °C
Storage temperature:	-30 °C ... 70 °C

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