Laser Distance Measuring Device
LMC-X-0062-X

Precise − Robust − Reflector less − Fast:

- Measures distances with millimetre accuracy.
- Precisely defines positions.
- Detects movements.

The LMC-X-0062—X is an opto-electronic distance measuring module for industrial applications. The module operates on basis of pulse back-mixing method. The Laser has a divergence of 0.35 mrad for measurement with pinpoint accuracy. The max. measuring rate amounts 100Hz. The measured result is available via RS 232 or RS 422 data interface. Available are also 3x digital switching output, 1x analogue 4..20mA output and 1x Trigger In/Out. All of setting parameter adjustable via serial interface,

The sensor alignment can be easily achieved with the help of the red pilot laser. The Measuring range is on any natural surface between 0,2m up to 100m dependent of surface remission

Features:

- Laser class 2 for eye safe operation
- Non-reflector measurement
- Millimetre accuracy measurement on any surface
- Easy installation and commissioning

Safety class:
- II 2G Ex db op is IIC T6 Gb,
- II 2D Ex tb op is IIIC T80° Db
- Licence: EPS 14 ATEX 1 696 X
- Ambient temperature: -20°C up to +40°C

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Case similar figure

Technical Data

Power supply	10 - 30 VDC
Power consumption	< 5W (with heating 15 W by 24 V)
Serial Interface	RS232 or RS422
Analogue Interface	4 … 20mA
Alarm output	3 high side switch, up to 0.2 A
Trigger	1 trigger in/output, 3V DC… 30V DC
Laser class	Class 2 (EN 60825-1:2007)
Wave length	λ= 650 nm
Divergence	< 0.35 mrad
Range*	0,1 …500 m (reflector)
	0,1… 100m (on natural surfaces)
Measuring time	10 … 1000 ms
Accuracy (1σ)**	± 1 mm (±3 mm)
Resolution	0.1 mm
Connection	by cable open end (standard 5m)
Material of housing	Aluminium
Protection class	IP 65
EMC	EN 61326-1
Temperature range	-20°C … +40°C
Dimension (LxBxH)	(340 x 144 x 144) mm
Weight	6,0 kg

*Depending on the surface, target reflectivity, stray light. distance range and environment condition
**Depending of setting parameters, surface temperature and distance range