

ES LRD-20/M

Eye safe laser range finder



ES LRD-20/M is eye safe, long distance, laser rangefinder module. This module is used in many applications, from demanding military systems to portable devices. Rangefinder operation is based on laser pulse Time-of-Flight (TOF) and is designed to operate reliable under various environmental conditions. This robust device can measure distances up to 20 km.

Features:

- Laser pulse Time-of-Flight (TOF) measurement
- Suitable for harsh environments
- Max. range 20 km
- Standard serial interface
- Easy integration to mobile or stationary systems
- Erbium glass laser 1540 nm wavelength
- Wide temperature range
- Shock and vibration resistant
- Nitrogen filled
- Customized user interface and protocol available

Typical applications:

- Military measurements
- Security measurements
- Maritime measurements
- Target acquisition
- Surveillance
- Ground to air measurements
- Air to ground measurements

Technical characteristics :

Laser range finder

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|-------------------------|--|
| • Range | 80 m to 20000 m |
| • Accuracy | ± 5 m |
| • Blocked range | 80 m to 5000 m |
| • Targets measured | 2+1 blocked |
| • Wavelength | 1540 nm |
| • Energy | ≤ 8mJ |
| • Beam divergence | ≤1 mrad |
| • Measuring frequency | single (activate momentary switch) one burst per minute, 20 pulse @ 1 Hz |
| • Connection | RS232/RS422 |
| • Chassis Connector | Souriau 85107A12-10P50 |
| • Operating temperature | -30°C to +55°C |
| • Power supply | 20 VDC to 30 VDC |
| • Power consumption | < 2.5 A |

Rectification scope

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|-----------------------------|-----------------------------|
| • Zoom-in & Object diameter | 1,5 to 4,5 x 32 mm |
| • Field of View @ 1000 m | 22,3 m @ 1,5x, 7,7 m @ 4,5x |
| • Exit pupil | 17 mm @ 1,5x, 7 mm @ 4,5x |
| • Eye Relief | (4/102) mm |
| • Click Value | 7 mm @ 100 m |
| • Adjustment range | 1,7 m @ 100 m |
| • Weight | 267 g |
| • Length | 268 mm |

