

# 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

- Range 80 m to 20000 m
- Accuracy  $\pm 5$  m
- Blocked range 80 m to 5000 m
- Targets measured 2+1 blocked
- Wavelength 1540 nm
- Energy  $\leq 8$  mJ
- Beam divergence  $\leq 1$  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  $-30^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$
- Power supply 20 VDC to 30 VDC
- Power consumption  $< 2.5$  A

#### Rectification scope

- 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

