

ULTI
SENSE.

LRF 3042

Datasheet



This robust diode laser range finder module combines excellent range performance with outstanding handling comfort.

A stable, mechanical structure allows the module to withstand harsh environmental conditions such as temperature, shock and vibration. In addition, the module can be upgraded with an integrated high precision digital magnetic compass. This makes this module ideal for remote weapon stations or fire control systems.

PRODUCT HIGHLIGHTS

Weapon shock proof up to 1,000g

Invisible even for NV goggles

Unrestricted eye safe operation

6km on beamfilling target

Available with integrated digital magnetic compass

APPLICATIONS

Remote weapon stations

Fire control systems

Observation and surveillance systems

Coastguard and border protection

LRF 3042
TECHNICAL DATA

PERFORMANCE

Range performance on beamfilling target Reflectivity 60%, Observer visibility 10km, typical	6,000m
Range performance (NATO target) Target size 2.3×2.3m, Reflectivity 30%, Observer visibility 10km, typical	2,800m
Accuracy 50 - 1,500m (1σ)	± 3m
Accuracy >1,500m (1σ)	± 5m
Single measurement repetition rate	0.3Hz
High repetition rate	1Hz
Multiple target detection	up to 3 targets
Wavelength	1,550 nm
Divergence typical	2.0×2.0 mrad
Eye safety per IEC 60825-1	Class1

ENVIRONMENTAL CHARACTERISTICS

Operating temperature range	-35° C to +55° C
Storage temperature range	-40° C to +85° C
Shock (half sine) at 1ms in z-direction (line of sight)	1,000g
Shock (half sine) at 1ms in x- and y-direction	500g

PHYSICAL CHARACTERISTICS

Weight	325 g
Dimensions (length/width/height)	114 × 100 × 50.25 mm

INTERFACES

Hardware interface	4 pin and 12 pin Minitex
Communication interface	RS232
Power supply	4V - 6V
Mechanical interface	3 threaded holes, 2 positioning holes

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