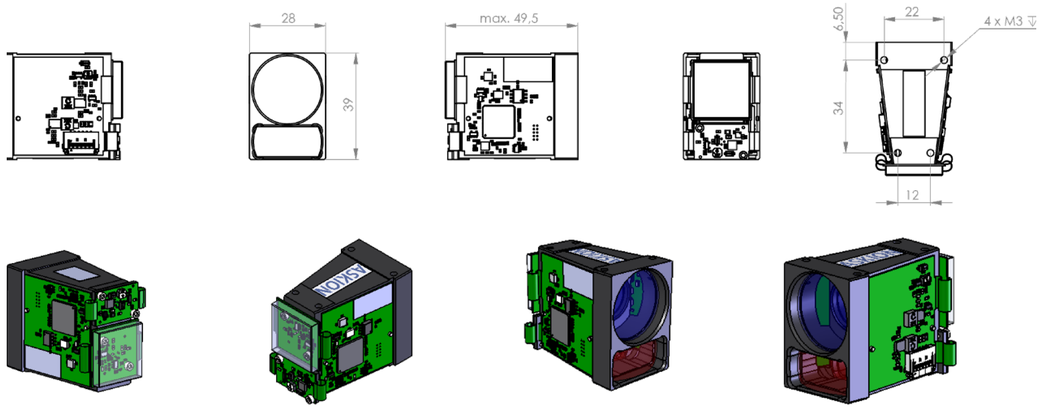
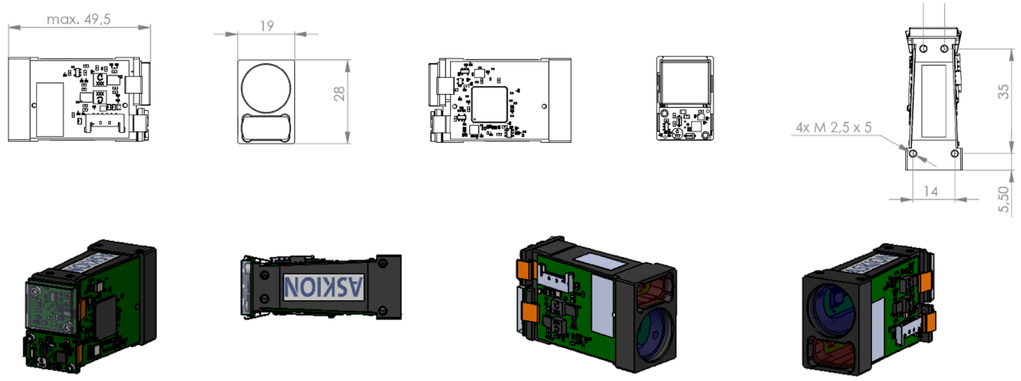
ASKION LRF-Dimensions

DIMENSION DMM-1025/-1M



DIMENSION DMM-1016



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ASKION
LASER RANGE FINDER

LASER RANGE FINDER

Commercial of the shelf eye-safe Laser Range Finder with 905 nm laser diodes.

- **Outstanding technical characteristics**
- **Excellent Price-Perfomance-Ratio**
- **Integration to industrial and securitiy applications**

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Typical LRF-Applications

The ASKION Laser Rangefinder Family is qualified to be integrated into sensor systems for applications in industrial environment, sport optic devices and security equipment. To meet the high expectations of our customers, the ASKION LRF offer a high level of adaptability to ensure the realization of different specifications according to customer requirements.

Multiple target detection (up to four targets), adjustable measurement rate, laser counter and customer specific communication protocols are available.

Industrial automation

- **Monitoring and positioning of installations**
- **Distance measurement in the areas of geology and conveyor technology**
- **Position monitoring in rail and shipping traffic and in container transport**

Sport & observation optics

- **Laser distance measurement with daylight sight long-range optics**
- **Night vision combined with distance measurement**
- **Laser distance measurement for target optics in the hunting and sports shooting area**
- **drone surveillance**

Security technology

- **Altimeter in flying objects**
- **Distance measurment in platforms for bordercontrol or monitoring of critical infrastructure facilities**
- **Distance measurement in traffic flow**

Technical specifications

Perfomance parameters

Characteristics	DMM-1016	DMM-1025-1	DMM-1025 - 1M	Comments
Wavelength (nm)	905	905	905	
Laser Class	1/1M/3R	1	1M/3R**	EN 60825-1:2015-07
Measurement range (m)	1 – 1,500	1 – 2,500	1 – 5,000 (*ER)	Beam filling target
Standard target range (m)	700	1,150	1,900	Target 1.8 x 0.6 m², 10 km visibility, 30 % albedo
Measuring time (s)	0.05 – 1.5	0.05 – 1.5	0.0025 – 1.5	Higher accumulation times on request
Measuring frequency (Hz)	0.1 – 10	0.1 – 10	0.1 – 400 (*FR)	Higher frequencies on request
Resolution (m)	0.1	0.1	0.1	
Accuracy (m)	+/- 0.5	+/- 0.5	+/- 0.5	30% albedo,, 10 km visibility, 20°C Beam filling target, 1 σ @ 500 m (DMM1016) & 700 m (DMM1025)
Opto-mechanical alignment accuracy (mrad)	+/-0.2	+/-0.2	+/-0.2	Within temperature range
Divergence (mrad)	1.4 x 0.4	1.4 x 0.4	1.4 x 0.4	0.9 x 0.4 on request

*ER=„Extended Rang"-version (up to 5,000 m range) and FR='Fast Range'-Version (up to 400HZ measurining frequency) available.

**LSK 3R if desired by costumer, otherwise only 1 and 1M

Mechanical specification

Characteristics	DMM-1016	DMM-1025	DMM-1025 - 1M	Comments
Size (WxHxL) (mm)	19 x 28 x 49.5	28 x 39 x 49.5	28 x 39 x 49.5	
Weight (g)	< 35	< 60	< 60	
Temperature range (°C)	-35 to 65	-32 to 55	-32 to 55	
Storage temperature (°C)	-45 to 80	-45 to 80	-45 to 80	
Shock resistance (g)	1,500	1,500	1,500	@ 0.5 ms pulse width

Elecrtical Specification

Characteristics	DMM-1025 / DMM-1016	Comments
Serial Interface	UART	Max. 3.3 V
Interface connector	Molex 504050-0601	
Supply voltage (VDC)	1.9 – 5.2	
Power consumption during measurement (W)	1.0 - 1.5	
Power consumption, Standby (mW)	< 40	
Power consumption, Sleep mode (mW)	< 0.050	
Start-up-time (s)	approx. 0.1 (from Standby) approx. 1 (from Sleep mode)	

Technische Änderungen und Irrtümer vorbehalten.