ASKION GmbH
Gewerbepark Keplerstraße 17-19
D-07549 Gera

Distance measurement module
DMM-1025-1M-FR-G2

Technical specification

Performance:

Wavelength:	905 nm
Laser class:	1M (EN 60825-1:2015-07)
Range:	20 – 3,000 m (Beam filling target)
Standard target range:	1,900 m @ target size 1.8 × 0.6 m, 30% albedo, 10 km visibility
Measurement time:	0.0025 – 1.5 s
Measurement rate:	0.1 – 400 Hz
Accuracy:	± 0.5 m @ 30% albedo, 700 m distance
Resolution:	0.1 m
Divergence:	1.4 × 0.4 mrad

Mechanical Parameters:

Size (W × H × L):	28 × 39 × 49.5 mm
Weight:	≤ 60 g
Shock resistance:	1,500 g @ 0.5 ms pulse width
Operation temperature:	-32 – 55 °C
Storage temperature:	-45 – 80 °C

Electrical Parameters:

Supply voltage:	1.9 V – 5.2 V
Interface connector:	Molex 504050-0601
Communication interface:	3.3 V UART
Power consumption, active:	1.0 – 1.5 W
Power consumption, standby:	< 40 mW
Start-up time, sleep:	~1.0 s
Start-up time, standby:	~0.1 s
Additional options:	a) Temperature sensor b) UART – USB2 converter

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Document History

Rev.	Changes	Date	Author
0	Initial Revision	2026-10-02	Behr