

Technical Data

Measurement principle	Laser pulse - Time of flight measurement
Measuring range ¹⁾	0,2 m ... 30 m for target reflectance $\geq 10\%$ Up to 250 m for high target reflectance or use of special reflectors ²⁾
Measuring accuracy ³⁾	± 5 cm
Reproducibility	± 2 cm
Resolution	1 mm
Maximum measuring rate	30 kHz in FT mode 15 kHz in DT mode using binary output
Maximum output rate	30 kHz in FT mode 10 kHz in DT mode with binary output format 4 kHz in DT mode with ASCII coded decimal output
Laser divergence	3 mrad x 1 mrad
Laser class	Laser class 1, EN 60825-1:2007 (905 nm, infrared)
Operating temperature	Standard: 0 °C ... +50 °C Optional: -20° C ... + 50 ° C (option -c)
Storage temperature	-40 °C ... +70 °C
Power supply	10 V ... 30 V direct current
Power consumption (maximum)	3 W
Serial interface	RS232 or RS422 ⁴⁾ , Max. Baud rate 921600, ASCII or binary encoded
Digital switching output	2x "High-Side" switch, max load 0.2 A
Analog output	Programmable distance range, 4 mA ... 20 mA
Humidity	10 % ... 90 %, not condensing
EMV	EN 61000-6-2 EN 55011
Shock / Vibration	DIN ISO 9022-3
Weight	125 g
Protection class	IP 67
Size (incl. connector)	86 mm x 45 mm x 45 mm
MTTF	> 5 years (> 44.000 hours)

¹⁾ Dependent on target reflectance, influence of extraneous light and atmospheric conditions

²⁾ e.g. Scotchlite Cube 3000x

³⁾ For single measurement, 1 sigma

⁴⁾ Please state when placing the order. Maximum output rate can only be achieved with RS422 interface

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It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding