

LASE 1000D-R/-T Series

DATASHEET

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Technical data

Model	LASE 1000D-R	LASE 1000D-T
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DISTANCE MEASUREMENT

Measurement range (*)	1 ... 500 m		on reflection foil (LASE)
	1 ... 800 m		on HR plastic reflectors
		1 ... 110 m	on white targets (90% reflectivity)
		1 ... 55 m	on grey targets (18 % reflectivity)
Reproducibility (**)		1 ... 30 m	on black targets (6 % reflectivity)
	< 0,5 mm	< 50 m ± 1 mm > 50 m ± 2 mm	on white targets (90% reflectivity)
		< 35 m ± 2 mm > 35 m ± 3 mm	on grey targets (18 % reflectivity)
		< 20 m ± 2 mm > 20 m ± 3 mm	on black targets (6 % reflectivity)
Beam divergency	2 mrad	6 mrad	
Visual displays / controls	4 LED's		function indicator
	4-key control pad		for parameterisation
	backlit display		displays values and parameter settings
Laser classes	class 1		measuring laser (905 nm)
	class 2		marking laser (660 nm)

SCAN AND PROFILE MEASUREMENT

Measuring frequency	20 kHz	
Resolution	0,1 mm	adjustable
Light spot	ca. ø 100 cm at 500 m	ca. ø 15 cm at 20 m
Distance output	ASC II text	

INTERFACES

RS 232 / RS 422	yes
SSI	yes
Analog	4 ... 20 mA
Profibus DP	yes
Digital outputs 2 x PNP	Q1, Q2

ELECTRICAL & MECHANICAL

Voltage	18 ... 30 V DC
Current	0,25 A (24 V)
Protection class	IP 65
Weight	1,5 kg

ENVIRONMENT DATA

Temperature range	operation: -10° C ... +55° C
	storage: -30° C ... +70° C

(*) When close-up range blanking is activated, the minimum distance increases to 1,5 m

(**) Typical reproducibility for devices under constant environment conditions (approx. 20° C, 1013 mbar, same target) after at least 30 min. operation time

Scope of delivery: Sensor, operating instruction, configuration software, gsd-file, S-7 function block

