

CML500 Laser telemeter





Description

The CML500 laser telemeter is adapted to measure the distance between itself and natural surfaces or reflectors, for indoor or outdoor applications in high common light influence.

For a 200m distance, the CML500 offers a measurement down to 1 millimeter and an output frequency up to 100 Hertz.

Thanks to their standard interfaces, the CML500 laser telemeters are optimized for an easy integration in systems.

A robust aluminum body allows an adaptation to the more severe environments.



Advantages

- Large measurement range, precision up to the millimeter
- Eye-safe visible beam (red)
- Standard interfaces
- Digital and analog output
- Distance measurement of hot surfaces
- Outdoor applications in high common light influence

Applications

- Contactless measurements
- Metallurgy plants
- Position and height detection in crane applications
- Level measurement, thickness, length, width detection
- Plant automation and process technology



CML500

Laser telemeter

Technical data

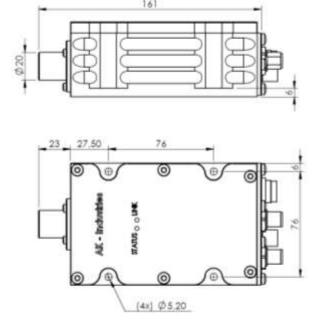
		CML500.	100	200	300	110	210	310
Range ¹		0.15 200 m						
	Target Oralite 5200	50 m 200 m						
	White surface	0.15m 100 m						
	Natural surfaces, 80% remission	0.15m 100 m						
	Natural surfaces, 6% de remission	0.15m 85 m						
Accuracy	(1σ) (*)	± 2.1 mm						
	(2σ)	± 3 mm						
Repeatability		± 0.6 mm						
Resolution		0,1 mm						
Minimal response time		10 ms						
Laser class		Laser class 2 , EN 60825-1:2014						
Laser wavelength		655 nm (red)						
Laser beam divergence		0.2 mrad (50% laser power)						
Interfaces		RS232 - RS422 - RS485						
		SSI						
		Profibus						
		1 x M16 (12 pins)						
Connectors		1 x M12 (5 pins)						
		2 x M12 (5 pins)						
Digital switching output lines		3 high-side switches						
Trigger line		1× Trigger IN / OUT, 3 VDC 30 VDC						
Analog output		4 20mA						
Power supply		10 30 VDC						
Power consumption		10W (standard)						
		42W (with heating)						
Operating temperature		-10 °C +60 °C (standard)						
		-40 °C +60 °C (with heating)						
Dimensions (L x W x H)		161 mm × 88 mm × 54 mm						
Weight		ca. 900 g						
Protection class		IP65						
EMV		EN 61326-1						

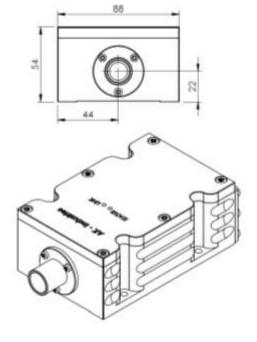
^{*1} Measurement range for natural, diffuse reflecting surfaces, depending on target surface type, stray light influences and atmospheric conditions

Lec	ae	nd

Applies
Does not apply

Dimensions





Please note: Specifications are subject to change for improvement without notice.

