



## 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

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## Laser telemeter

### Technical data

			CML500.	100	200	300	110	210	310
Range <sup>1</sup>	Target Oralite 5200	0.15... 200 m							
	White surface	50 m ... 200 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							
Connectors		1 x M16 (12 pins)							
		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

### Legend

	Applies
	Does not apply

### Dimensions



