








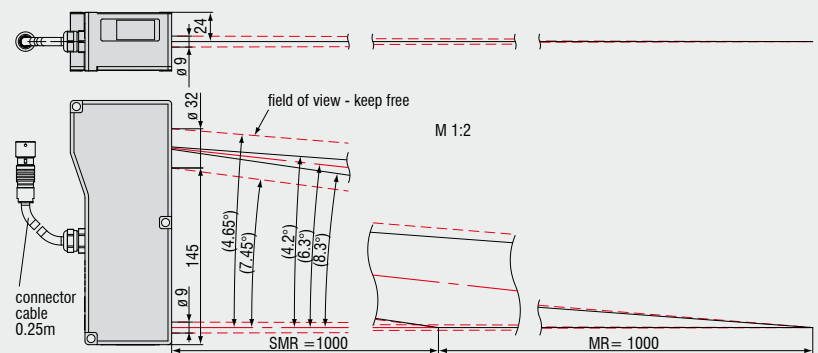
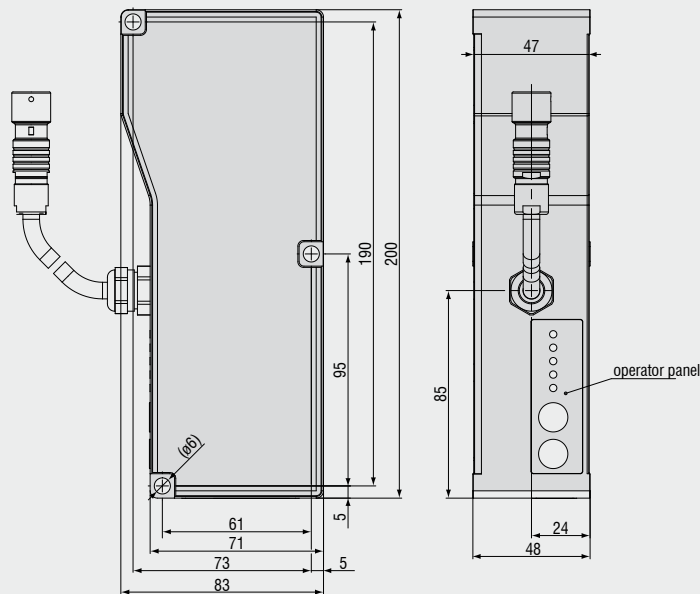




-  **High accuracy and long standoff distances**
-  **Model with measuring range up to 1000mm**
-  **Compact design with integrated controller**
-  **Adjustable measuring rate up to 2.5kHz**
312Hz, 375Hz, 1000Hz
-  **Real Time Surface Compensation**
-  **Analogue (U/I) and digital output**
-  **Adjustable filter functions (firmware)**
-  **Calibration certificate included**
-  **Configuration via software**
www.micro-epsilon.com/download

The optoNCDT 1710-1000 laser sensors are unrivalled in measurement performance worldwide. The sensor can measure over a working range of 1,000mm. The start of measurement is 1,000mm from the sensor body which means that objects upto 2m in distance can be measured. The controller is integrated into the housing of the sensor which means that external electronic processing is not required. The sensor operates with automatic, real time surface compensation, RTSC which auto adapts the laser intensity to the surface being measured. Additionally built in, programmable limit switch give the sensor further integration flexibility.



Model		ILD1710-1000
Measuring range		1000mm
Start of measuring range		1000mm
Midrange		1500mm
End of measuring range		2000mm
Linearity	≤ ±0.1% FSO	±1mm
Resolution (at 2.5kHz, without averaging)		100µm
Measuring rate		2.5 kHz / 1.25 kHz / 625 Hz / 312.5 Hz (adjustable)
Lichtquelle		semiconductor laser <1mW, 670nm (red)
Permissible ambient light	at 2.5kHz	10 000lx
Laser safety class		class 2 acc. DIN EN 60825-1 : 2001-11 / Class 2 (IEC 60825-1) Class II (FDA)
Spot diameter	SMR	2.5...5mm
	MMR	2.5...5mm
	EMR	2.5...5mm
Temperature stability		0.01 % FSO/°C
Operation temperature		0 ... 50°C
Storage temperature		-20 ... +70°C
Output	measurements	switchable: 4 ... 20 mA / 0 ... 10 V / RS 422 / USB (optional via cable PC1700-3/USB)
	switching outputs	1 x error or 2x limit values (configurable)
Switching input		Laser ON-OFF / Zero
Operation		via keypad directly on the sensor and/or via PC with ILD1700 Tool
Power supply		24VDC (11 ... 30 VDC), max. 150mA
Electromagnetic compatibility (EMC)		EN 61000-6-3 and EN 61000-6-2
Sensor cable		standard 0.25m integrated
Synchronisation		possible for simultaneous or alternating measurements
Protection class		IP 65
Vibration		2g / 20 ... 500Hz
Shock		15g / 6ms
Weight		~ 0.8kg

FSO = Full Scale Output All specifications apply for a diffusely reflecting matt white ceramic target
SMR = Start of measuring range; MMR = Midrange; EMR = End of measuring range;