

More Precision.

optoNCDT ILR

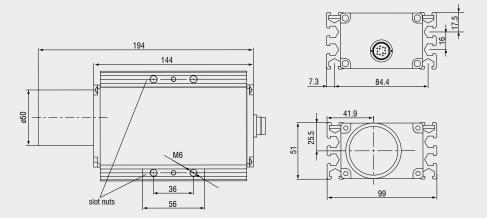
Laser distance sensors

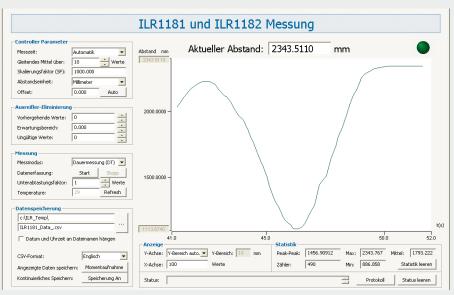
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State of the art sensor with high precision



Sensors in the optoNCDT ILR 1181 / 1182 / 1183 series are optoelectronic sensors for noncontact distance and displacement measurement for industrial applications. Both sensors operate according to the phase comparison principle, whereby higher precision can be achieved. They can be aligned and positioned in use with a visible laser beam with little effort. The optoNCDT ILR 1182 series operates with a 50Hz measuring rate and is therefore suitable for fast processes. The mounting grooves on the housing offer flexible mounting options for many situations.

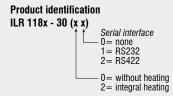




Configuration and measurement software for ILR1181 und ILR1182

Model		ILR1181-30	ILR1182-30	ILR1183-30		
	black 6%	0.4 17m				
Managering range 1)	grey 10%	0.1 30m				
Measuring range 1)	white 90%	0.1 80m				
	reflector	0.1 150m (reflector film ILR-RF118x)				
_inearity ²⁾		±2mm (+15°C +30°C), ±5mm (-40°C +50°C)				
Resolution		0.1mm				
Repeatability		≤0.5mm				
Response time 1)		100ms 6s	20ms 6s	20ms 6s		
aser class (IEC 825-1 / EN 60825-1)		red 650 nm, laser class 2				
Operation temperature		-10°C + 50°C (optional -40°C +50°C, with integrated heating)				
Storage temperature		-40°C +70°C				
_imit outputs		QA (max. 500 mA)		QA / QB (max. 500 mA)		
Switching points		free adjustable				
Switching hysteresis		free adjustable				
rigger input (not compatible with in	ntegral heating)	trigger edge and delay selectable, trigger pulse of max 24V				
Serial interface		RS232 or RS422 ³⁾ adjustable, max 38.4 kBaud		SSI interface (RS422), 24Bit, Gray-encoded, 50kHz 1MHz		
Profibus ³⁾		-		Profibus (RS485) 9.6kBaud 12MBaud ³⁾		
Operation mode		external triggering, single / continuous measurement, distance tracking				
analog output		4 20mA (16 Bit DA)				
Temperature stability		≤50ppm / °C				
Supply	ly		10 30 VDC			
Max. consumption		<1.5W at 24 V (<24W with heating)		3,2W at 24 V (<26W with heating)		
Connection		12-pi	n M16	1 x 12-pin M16 2 x 5-pin M12 B-encoded		
Protection class		IP 65				
aterial (housing)		aluminium strangeness profile, powder-coated				
Vibration/Shock		500g, 0.5ms, 1 shock/axis (DIN ISO 9022-30-08-1)				
		10g, 6ms, 1000 shocks/axis (DIN ISO 9022-3-31-01-1)				
/eight		980 g				
EMV			EN 61000-6-2, EN 55011			
Accessoires		page 14 - 15				

depending on target reflectance, ambient light influences and atmospheric conditions
 with statistical spread of 95%
 sensor configuration via profibus interface





optoNCDT ILR 1181/1182/1183 operate with a wavelength of 650 nm (visible, red). The maximum optical output is \leq 1 mW. The sensors are classified in Laser Class 2. Class 2 lasers are not notifiable and a laser protection officer is not required either.

Spot diameter ILR1181/1182/1183

		ø11mm	ø35mm	ø65mm
	_	10m	50m	100m

High performance sensors made by Micro-Epsilon



Sensors and systems for displacement, position and dimension

Eddy current sensors
Optical and laser sensors
Capacitive sensors
Inductive sensors
Draw-wire sensors
Optical micrometers

2D/3D profile sensors Image processing



Sensors and measurement devices for non-contact temperature sensors

Online instruments Handheld devices Thermal imagar



Measuring systems for quality control

for plastic and film for tire and rubber for web material for automotive components for glass



