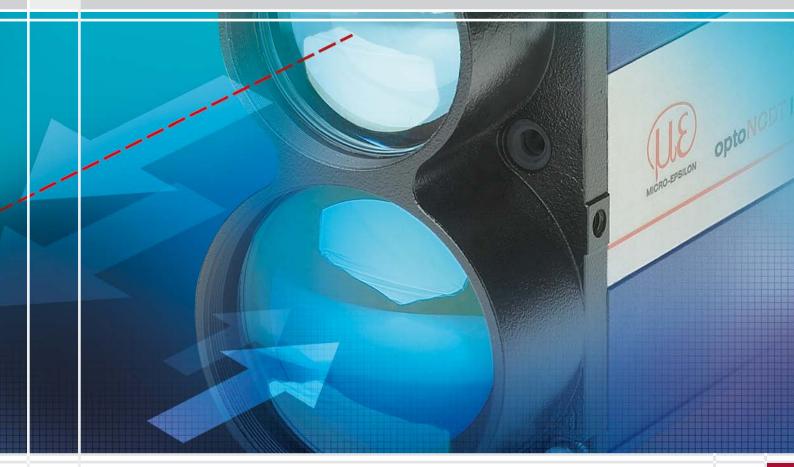
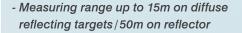


# More Precision

## optoNCDT ILR // Laser distance sensors

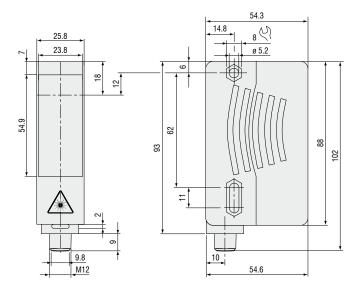


#### optoNCDT ILR 1030/1031



- Very short response time
- Small size
- Excellent price-performance ratio

The laser distance sensors ILR1030/1031 operate according to the time-of-flight technology. Thanks to this technology the sensors permanently offer – independent of environmental conditions such as surface characteristics, dark colour or present external light – accurate, reliable and clear as well as reproducible measurement results.





ILR103x: Analogue output and limit output programming via touch keys

Model		ILR1030-8	ILR 1030-8/LC1	ILR 1030-15	ILR1031-50	ILR1031-50/LC1	
Measuring range <sup>1)</sup>	black 10%	0.2 2.5m	0.2 2.5m	0.2 5m	-	-	
	grey 18%	0.2 3.5m	0.2 3.5m	0.2 6m	-	-	
	white 90%	0.2 8m	0.2 8m	0.2 15m	-	-	
	reflector	-	-	-	0.2 50m (ILR-RF250/ILR-RF70)		
Linearity 2)			±20mm				
Resolution		1mm					
Repeat accuracy		<5mm					
Response time		10ms					
Laser class	meas. laser red 660nm	class 2	class 1	class 2	class 2	class 1	
Permissable ambient light		50,000lx					
Operation temperature <sup>3)</sup>		-30° +50°C (humidity 5 - 95%, no condensation)					
Storage temperature		-30° +70°C					
Limit outputs		Q1/Q2 push-pull outputs					
Switching voltage		max. 30VDC					
Switching current		max. 100mA					
Analogue output		4 20mA, short-circuit/overload protected					
Temperature stability		≤0.25mm/°C					
Supply		10 - 30VDC, class 2					
Connection		connector M12x1, 4-pin					
Protection class		IP 65					
Material	housing	Plastic ABS					
	window	Plastic pane					
Weight		90g					
Accessoires		page 14 - 15					

<sup>1)</sup> depending on target reflectivity, stray light effects and atmospheric conditions

<sup>2)</sup> with statistical spread of 95% <sup>3)</sup> when crossing O°C an additional heating may be required



LASER CLASS 1 DIN EN 60825-1 : 2007 No additional protection equipment required.

optoNCDT ILR 103x-LC1 use a semiconductor class 1 laser. With this laser class no protection is needed.



optoNCDT ILR 1030/1031 operate with a wavelength of 660nm (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 ILR 1030 / 1031

	ø10mm	ø15mm	ø50mm
<b>پ</b>	8m	15m	50m

### High performance sensors made by Micro-Epsilon



Sensors and systems for displacement and position



Optical micrometers, fibre optic sensors and fibre optics



Sensors and measurement devices for non-contact temperature measurement



Colour recognition sensors, LED analyzers and colour online spectrometer



2D/3D profile sensors (laser scanner)



Measurement and inspection systems

Modifications reservred / Y9761278-B031087SGO



MICRO-EPSILON Headquarters Koenigbacher Str. 15 · 94496 Ortenburg / Germany Tel. +49 (0) 8542 / 168-0 · Fax +49 (0) 8542 / 168-90 info@micro-epsilon.com · www.micro-epsilon.com MICRO-EPSILON UK Ltd. No.1 Shorelines Building · Shore Road · Birkenhead · CH41 1AU Phone +44 (0) 151 355 6070 · Fax +44 (0) 151 355 6075 info@micro-epsilon.co.uk · www.micro-epsilon.co.uk