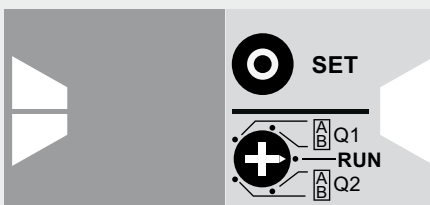
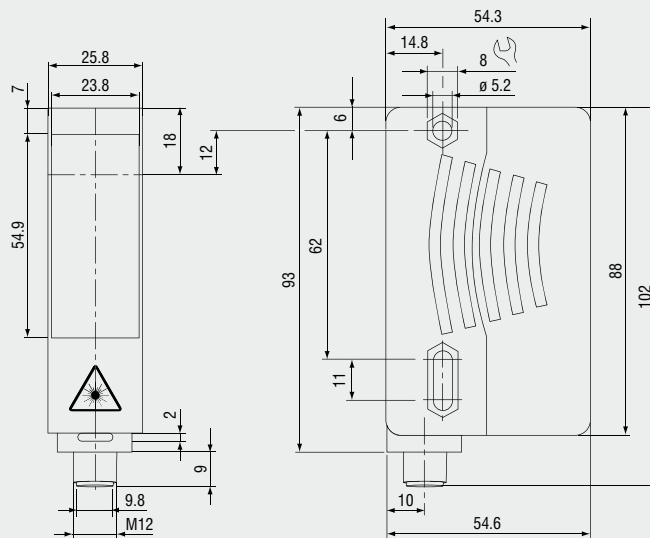


**Advantages:**

- Measuring range up to 8m on diffuse reflecting targets / 50m on reflector
- Very short response time
- Small size
- Excellent price-performance ratio

The new displacement sensors ILR1030-8 and ILR1031-50 function according to the time-of-flight technology. Thanks to this time-of-flight 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: Analog output and Limit output programming via touch keys

Model		ILR1030-8	ILR1031-50
Measuring range ¹	black 10%	0.2 ... 2.5m	-
	grey 18%	0.2 ... 3.5m	-
	white 90%	0.2 ... 8m	-
	reflector	-	0.2 ... 50m (ILR-RF250 / ILR-RF70)
Linearity ²		±20mm	
Resolution		1mm	
Repeat accuracy		<5mm	
Response time		10ms	
Laser class	measuring laser	red 660nm, laser class 2	
Spot diameter		<10mm at a distance of 8m at 20°C	
Permissible ambient light		50,000lx	
Operation temperature		-30° ... +50°C	
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 M12 x 1.4-pin	
Protection class		IP 65	
Material	(housing)	Plastic ABS	
	(optical face)	Plastic pane	
Weight		90g	
Accessoires		page 16 - 17	

¹ depending on target reflectivity, stray light effects and atmospheric conditions

² with statistical spread of 95%



optoNCDT ILR 1030/1031 operate with a wavelength of 660 nm (visible, red). The maximum optical output is ≤ 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

