

optoNCDT ILR 1030-8 / 1031-50 Laser distance sensors

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.

Advantages:

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



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
Linearity ²		±20mm	
Resolution		1mm	
Repeat accuracy		<5mm	
Response time		10ms	
Laser class	measuring laser	red 660nm, laser class 2	
Angle deviation		max. ±2°	
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	
Analog 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	

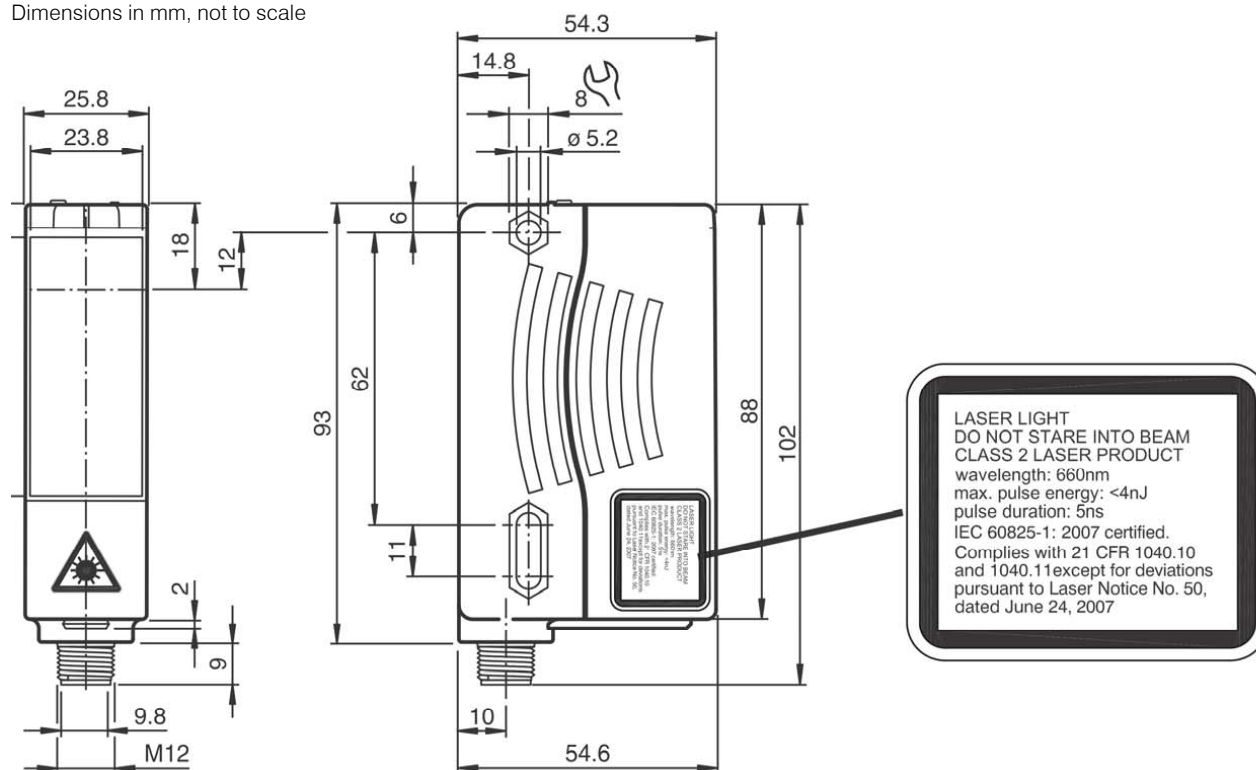
¹ depending on target reflectivity, stray light effects and atmospheric conditions

² with statistical spread of 95%

optoNCDT ILR 1030-8 / 1031-50 Dimensions and Accessories

Dimensions optoNCDT ILR 1030-8 / 1031-50

Dimensions in mm, not to scale



Applications:

Monitoring and positioning of crane systems, Filling level measurement, Overhead conveyors, Coil diameters, Distance measurement, Position determination, Security applications, Position monitoring of moving objects, Monitoring and height measurement of lifting systems, Positioning of lifts, Parts detection

Supply and output cable

PC1000-2	length 2m
PC1000/90-2	length 2m, 90°-connector
PC1000-5	length 5m
PC1000/90-5	length 5m, 90°-connector
PC1000/90-10	length 10m, 90°-connector