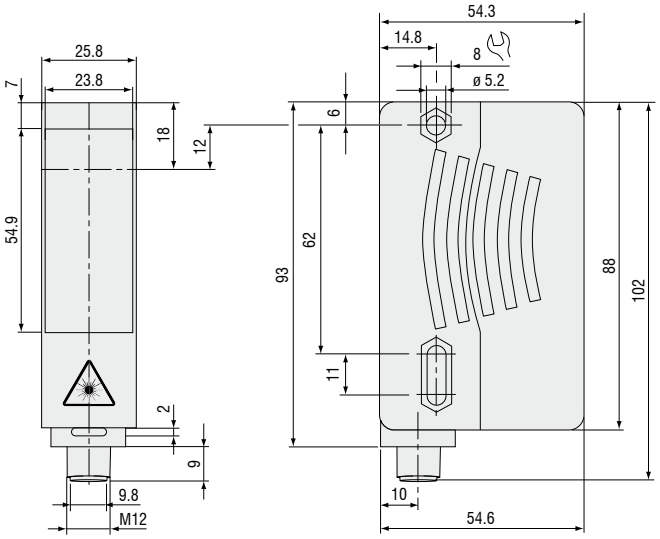
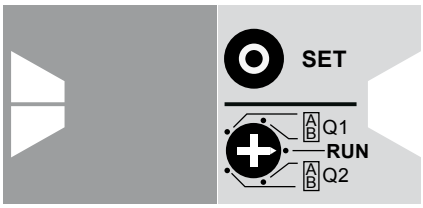
Compact and reliable laser distance sensor HT-1030/1031

- *Measuring range up to 15m on diffuse reflecting targets / 50m on reflector*
- *Very short response time*
- *Small size*
- *Excellent price-performance ratio*

The laser distance sensors HT-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 reproducable results



HT-ILR103x: Analogue output and limit output programming via touch keys

HT-ILR 1030/1031 model options

Model		HT-ILR1030-8/LC1	HT-ILR1030-15/LC1	HT-ILR1031-50/LC1
Article number		7112011.01	7112013.01	7112012.01
Measuring range [1]	black 10%	0.2 ... 2.5 m	0.2 ... 5 m	-
	gray 18%	0.2 ... 3.5 m	0.2 ... 6 m	-
	white 90%	0.2 ... 8 m	0.2 ... 15 m	-
	Reflector	-	-	0.2 ... 50 m (ILR-RF250)
Repeatability		<3 mm		
Resolution		1 mm		
Linearity [2]		< ±20 mm		
Measurement frequency		100 Hz		
Light source		semiconductor laser (red 660 nm)		
Laser safety class	EN 60825-1:2007	Class 1		
Divergence		< 1.5 mrad		
Permissible ambient light		50,000 lx		
Operating temperature [3]		-30 … +55 °C (humidity 5 ... 95 %, non-condensing)		
Storage temperature		-30 … +70 °C		
Switching output		Q1 / Q2 push-pull outputs		
Switching voltage		max. 30 VDC		
Switching current		max. 100 mA		
Analog output		4 ... 20 mA (12 bit DA), short-circuit/overload protected		
Temperature stability		≤ 0.25 mm / °C		
Power supply		10 ... 30 VDC, class 2		
Connection		4-pin, M12		
Protection class		IP67		
Material	Housing	ABS plastics		
	Window	plastic pane		
Weight		90 g		
EMC		complies with 2014/30/EU		
Accessories		page 10		

[1] Depending on target reflectance, ambient light influences and atmospheric conditions
[2] Statistical spread of 95% over the entire measuring range
[3] When crossing 0 °C additional heating may be required

Spot diameter HT-ILR103x/LC1

The HT-ILR103x/LC1 sensors use a semiconductor laser of class 1.
Laser class 1 devices require no special safety precautions.
They work with a semi-conductor laser with a wavelength of 660 nm in the (visible/red)
Laser power is <1 mW.