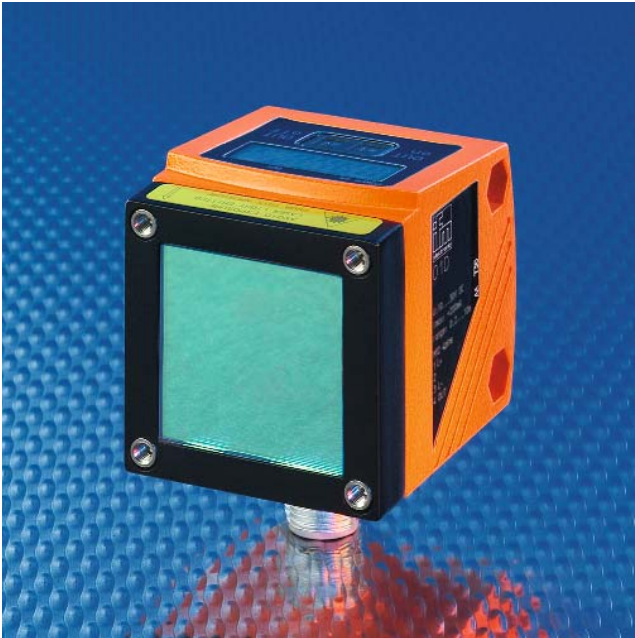


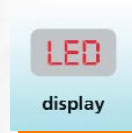


Less can be more! Distance sensor with laser class 1.



Award-winning PMD technology now also with laser protection class 1.

- Sensor in robust metal housing.
- 2 switching outputs, one configurable as an analogue output.
- Excellent price / performance ratio.
- Scalable measuring range.
- Wide range of accessories, e.g. mounting and fine adjustment unit.



PMD technology

Utilising the PMD technology (photonic mixer device) the O1D155 is a distance sensor with the capacities of a measuring system at the price of a standard sensor.

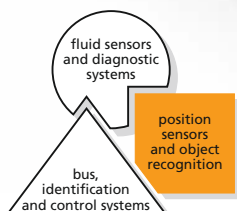
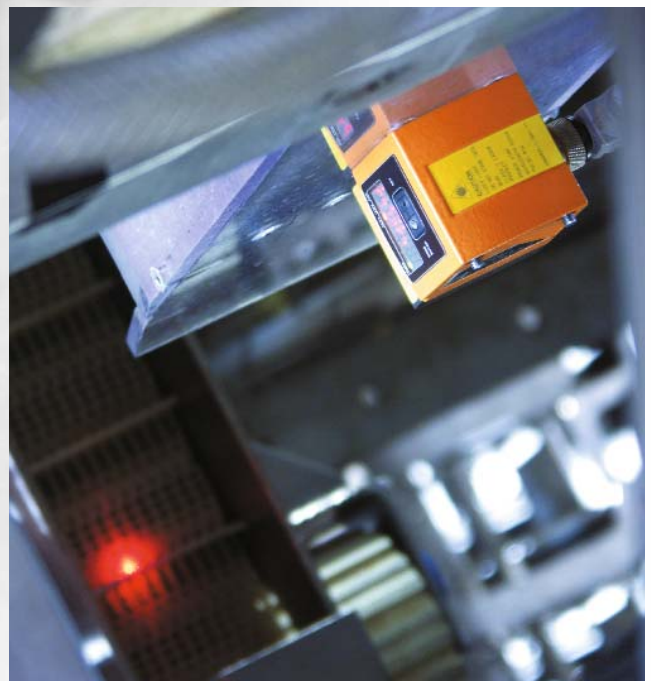
Simple distance measurement

With O1D155 distances can also be measured reliably when the light beam does not hit the object surface vertically. If surfaces are not shiny, the angle of incidence of the light beam can be up to 45°.

The laser used corresponds to the laser protection class 1.

Extensive range of accessories

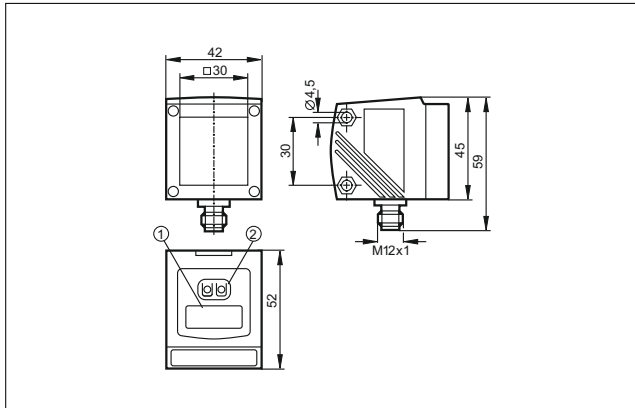
The extensive range of accessories enables a flexible and time-saving installation of the sensor.



Applications:
Distance measurement in automation technology.

Electrical design	Light spot diameter [mm]	Operating voltage [V]	Current consumption [mA]	Measuring frequency [Hz]	Operating temperature [°C]	Protection	Order no.
M12 connector · laser protection class 1 · measuring range 0.3...6 m							
DC PNP	6 (at 6 m)	18...30 DC	< 150	max. 33, adjustable	-10...60	IP 65, III	O1D155

Dimensions






- 1) 4-digit alphanumeric display
- 2) Programming buttons




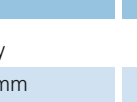
Accessories

Type	Description	Order no.
	Mounting rod, 100 mm, Ø 12 mm, M10 thread, stainless steel	E20938
	Mounting rod, Ø 12 mm, M10 thread, stainless steel	E20940
	Stainless steel mounting set for rod mounting Ø 12 mm	E2D101

Further technical data

Type O1D155		
Extraneous light	LUX	max. 8000
Output function	OUT1	 programmable
	OUT2	 programmable
		or analogue (4...20 mA, scaleable) (0...10 V, scaleable)
Short-circuit protection, pulsed		•
Rev. polarity / overl. protection		• / •
EMC		EN 60947-5-2
Material	housing front lens LED window	diecast zinc glass polycarbonate
Programming options		 , window function, analogue output, hysteresis function
Function display		
Switching status	LED	2 x yellow
Operation	LED	green
Distance value, programming		4-digit alphanumeric display
Visible laser light		Laser protection class 1, EN 60825

Connectors and splitter boxes

Type	Description	Order no.
	M12 socket, 5 m black, PUR cable	EVC002
	M12 socket, 10 m black, PUR cable	EVC003
	M12 socket, 5 m black, PUR cable	EVC005
	M12 socket, 10 m black, PUR cable	EVC006

Measuring range	Repeatability Sampling rate 1 Hz*		Accuracy Sampling rate 1 Hz*	
	white	grey	white	grey
300...1000 mm	± 8 mm	± 10 mm	± 28 mm	± 30 mm
1000...2000 mm	± 25 mm	± 25 mm	± 45 mm	± 45 mm
2000...3000 mm	± 38 mm	± 38 mm	± 58 mm	± 58 mm
3000...4000 mm	± 70 mm	± 70 mm	± 90 mm	± 90 mm
4000...5000 mm	± 100 mm		± 120 mm	
5000...6000 mm	± 100 mm		± 120 mm	

* In case of a higher sampling rate, which can be set on the unit, these values increase.
The values apply at constant ambient conditions (23 °C / 960 hPa), extraneous light of max. 8 kLx, only after unit powered up for 10 minutes.