TOP PRODUCT

Farsighted: the OGD Long Range – new compact PMD*Line* sensor

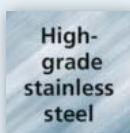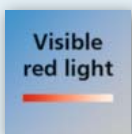## Laser sensors / distance sensors

Small compact design with standard M18 thread and time of flight technology

Excellent range of 1.5 m – independent of the colour

Sensors with laser protection class 1 – perfectly suited for the automotive industry

Visualisation and setting of the distance value via IO-Link and 2-colour display on the unit

PMD Technology

IO-Link

Visible red light

Class 1 laser

IP 65 IP 67

High-grade stainless steel

Long-range time of flight sensor for demanding applications

The new PMDLine sensor with a compact stainless steel housing is distinguished by a very long range. It uses the innovative on-chip time-of-flight measurement system with PMD (photonic mixer device) technology. The class 1 laser sensor performs better than conventional red light sensors even in very demanding circumstances e.g. in detecting shiny metallic surfaces. The excellent reflection resistance and background suppression, together with a high excess gain, enable reliable operation.
Typical applications are found in the automotive industry, conveying and materials handling.

Easy handling

The switch point is easily set using the three buttons on the unit or alternatively via IO-Link, which also allows read-out of the current distance value.

Measuring range [mm]	Background suppression [m]	Output	Laser protection class	Spot Ø at max. range [mm]	Unit of measurement	Order no.
Photoelectric distance sensor · M12 connector, complementary						
25...1500	20	PNP	1	5	mm, inch (selectable)	**OGD580**
25...1500	...20	NPN	1	5	mm, inch (selectable)	**OGD581**

Accessories

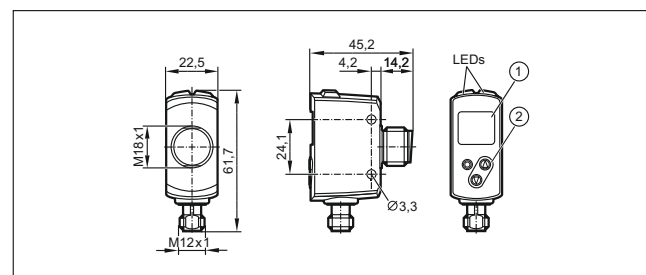| Design	Description	Order no.
Installation		
	Mounting set for clamp mounting, M10 thread, diecast zinc	**E20718**
	Mounting set for clamp mounting, M10 thread, stainless steel	**E20870**
	Mounting set for clamp mounting, Ø 12 mm, diecast zinc	**E20836**
	Mounting set for clamp mounting, Ø 12 mm, stainless steel	**E21207**
	Rod, 100 mm, Ø 12 mm, M10 thread, stainless steel	**E20938**
	Cube for mounting on an aluminium profile, M10 thread, diecast zinc	**E20951**
IO-Link		
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 kBit/s)	**E30390**
	Memory plug, parameter memory for IO-Link sensors	**E30398**
	IO-Link-master with PROFINET interface	**AL1100**
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	**QA0011**
Connection technology		
	Socket, M12, 2 m black, PUR cable	**EVC001**
	Socket, M12, 5 m black, PUR cable	**EVC002**
	Socket, M12, 2 m black, PUR cable	**EVC004**
	Socket, M12, 5 m black, PUR cable	**EVC005**

Further technical data

Operating voltage	[V DC]	10...30
Type of light / wave length		laser light 650 nm
Laser protection class		1
Output H = light-on / D = dark-on mode		H / D selectable
Protection rating, protection class		IP 65 / IP 67 III
Extraneous light immunity	[klx]	10
Switching status indication	LED	2 x yellow
Switching frequency	[Hz]	11
Current rating	[mA]	2 x 100
Current consumption	[mA]	75
Short-circuit protection, pulsed		•
Reverse polarity protection / overload protection		• / •
Ambient temperature	[°C]	-25...50
Materials	Housing	stainless steel (1.4404/316L) ABS; PPSU; PMMA
	Lens	glass

Dimensions

1) alphanumeric display, 3-digit
2) programming buttons

Wiring diagram

ifm – close to you!

For further technical details please visit: ifm.com