Millimetre perfect. The new OGD Precision from the PMD*Line*

TOP PRODUCT

Laser sensors / distance sensors

- **Small compact design with standard M18 thread and time of flight technology**
- **Precise distance measurement to the nearest millimetre**
- **Distance value shown on 2-colour display and sent via IO-Link**
- **Easy setting with 3-buttons or IO-Link**

PMD Technology

IO-Link

LED Display

Class 1 laser

IP 65 IP 67

High-grade stainless steel

Precise ToF distance sensor for demanding applications

Thanks to the innovative on-chip time-of-flight principle with PMD technology (photonic mixer device), this sensor offers all the capability of a very precise measurement system. The distance information can determine the presence of parts or their correct installation, e.g. if an O-ring has or has not been mounted. The excellent reflection resistance and background suppression, together with a high excess gain, enable reliable operation.
The PMD technology of the OGD is vastly superior to conventional diffuse reflection laser sensors. The OGD Precision is available with an extremely small light spot at a 300 mm range to detect very small parts.

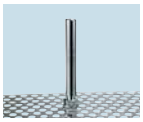
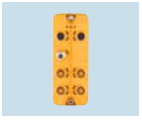
Easy handling

The switch point is easily set to the nearest millimetre via the three operating keys 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...300	...19,2	PNP	1	3*	mm, inch (selectable)	**OGD592**
25...300	...19,2	NPN	1	3*	mm, inch (selectable)	**OGD593**

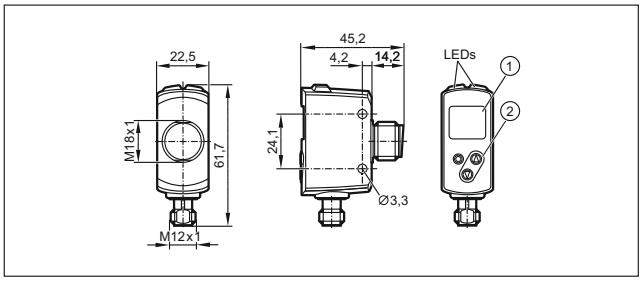
* spot Ø focussed (at 150 mm): 1 mm

Accessories

Type	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 mode / D = dark-on mode		light-on / dark-on 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