Faster, further, better

New generation of OGD distance sensors

- Distance measurement with millimetre precision using PMD time-of-flight technology

- Wide range of applications: 3 operating modes now facilitate object detection even in dynamic processes

- 2-in-1: simultaneous output of distance value and reflectivity

- Process values shown on 2-colour display and sent via IO-Link

IP67   **IO-Link**   **ToF**

ifm – close to you!

Material Housing	Laser protection class	Output	Measuring range [mm]	Order no.
Plastic	1	2x PNP/NPN (selectable)	50...2000	**OGD250**
Plastic	1	1x PNP/NPN, 1x analogue	50...2000	**OGD251**
Stainless steel	1	2x PNP/NPN (selectable)	50...2000	**OGD550**
Stainless steel	1	1x PNP/NPN, 1x analogue	50...2000	**OGD551**
Stainless steel	2	2x PNP/NPN (selectable)	50...4000	**OGD560**

Even more performance

The new generation of tried-and-tested distance sensors from the OGD series combines all the advantages of their various predecessor variants in just one device. The user is now presented with a choice of operating modes for optimisation in terms of high measuring distances, maximum precision or high measuring frequencies. This reduces the number of variants while enabling an optimum adaptation to a wide range of applications.

Laser class 2 = range x 2

In laser class 2 version, the OGD doubles its range and detects objects up to 4 metres away. Even dark, reflective or otherwise challenging objects are reliably detected thanks to the new high excess gain (HEG) feature.

Versatile use

The sensors of the OGD series measure distance values with millimetre precision. They are ideal assistants for positioning objects or checking presence, for example in quality control. The reflectance values can also be used, for example for identification in sorting tasks. The areas of application are wide-ranging: whether handling technology, robotics, assembly automation, conveyor technology or logistics; the new OGDs are universal problem solvers for your automation!

Light- or heavy-duty?

The choice is yours. We now offer the OGD in both plastic and stainless steel housings.

Common technical data		
Adjustable object reflectivity	[%]	6…900
Type of light / wave length	[nm]	laser light 650
Front pane material		PMMA
Measuring frequency	[Hz]	max. 180
Avoidance of mutual interference		up to 5 sensors
Protection rating		IP67

User-friendly

The sensor can be set either directly on the device by using the 3 operating buttons and the 4-digit display, or conveniently from a distance via IO-Link. As the new OGDs are backward compatible, they can seamlessly adopt the parameter sets of the previous generation when replacing earlier devices.

Speaking of the display: it can do more than just display the current measured value reading. A red-green colour change signals the status of the current measurement in a clear and simple way.

In addition to the distance value, the reflectance value can also be output for evaluation via analogue output or IO-Link, or signalled via switching output.
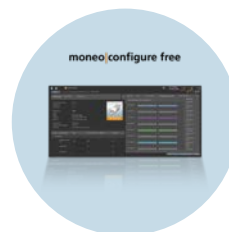
BEST FRIENDS

IO-Link interface
For parameter setting of IO-Link devices on a PC

IO-Link masters
Masters with PROFINET interface for use in the field

moneo|configure free
Software for parameter setting of the IO-Link infrastructure

For further technical details, please visit:
ifm.com/fs/OGD250