



The right ones for every occasion

New generation of OGD distance sensors

- Distance measurement with millimetre precision using PMD time-of-flight technology
- From short distance to long distance, all requirements are covered
- 2-in-1: simultaneous output of distance value and reflectivity
- Process values shown on 2-colour display and sent via IO-Link



ifm – close to you!

Measuring range [mm]	Laser protection class	Output	Housing material	Order no.
50...500	1	2x PNP/NPN (selectable)	stainless steel	OGD540
50...4000	2	2x PNP/NPN (selectable)	stainless steel	OGD560
50...2000	1	2x PNP/NPN (selectable)	plastic	OGD250
50...2000	1	1x PNP/NPN, 1x analogue	plastic	OGD251
50...2000	1	2x PNP/NPN (selectable)	stainless steel	OGD550
50...2000	1	1x PNP/NPN, 1x analogue	stainless steel	OGD551

Even more performance

The new generation of the proven OGD distance sensors now offers an even wider range to suit all applications. Precise measurements at short distances are just as easy as object detection over ranges of up to 4 metres. All versions are equipped with PMD technology resistant to extraneous light and can distinguish objects based on their reflectivity. The sensors can also easily detect jet-black or high-gloss products.

Solutions for reliable error proofing

As a laser class 2 model, the OGD560 has twice the range and enables error proofing at distances of up to 4 metres. The OGD540 ensures process reliability in close proximity. Even dark, reflective or otherwise challenging objects are reliably detected thanks to the new Ultimate Black Mode.

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	
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	IP65, 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.

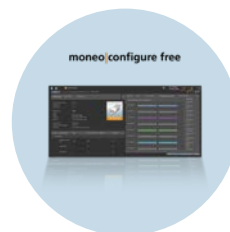
BEST FRIENDS



IO-Link interface
For setting the parameters of IO-Link devices on a PC



IO-Link masters
Field-compatible masters with PROFINET interface



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



For further technical details, please visit: ifm.com/fs/OGD540