

Fast and precise

Photoelectric sensor measures distances in the μm range

- Detects tiny objects with highest precision
- High switching frequencies for dynamic applications
- 3 operating modes and a robust, compact design enable a wide range of applications
- Versatile and future-proof connectivity thanks to analogue outputs and IO-Link



IP67



ifm – close to you!

Measuring range [mm]	Resolution [mm]	Laser spot [Ø mm]	Output	Order no.
30...80	0.01	0.5	2x PNP/NPN (selectable)	OMH550
30...80	0.01	0.5	1x PNP/NPN 1x analogue	OMH551
50...200	0.05	1	2x PNP/NPN (selectable)	OMH552
50...200	0.05	1	1x PNP/NPN 1x analogue	OMH553
50...500	0.5	1	2x PNP/NPN (selectable)	OMH554
50...500	0.5	1	1x PNP/NPN 1x analogue	OMH555

High-precision object detection

Thanks to its high resolution, the OMH sensor detects tiny objects in standard mode with an accuracy in the micrometre range. Even precise arrangements and positioning of delicate components, such as those used in battery cell production, can be reliably ensured with the high-precision OMH.

Additional speed and power mode

In fast conveyor belt applications, the sensor achieves impressive measuring frequencies of 1200 Hz in speed mode.

In power mode, the OMH maintains this micrometre precision even under challenging conditions, such as in PCB assembly. This is an outstanding feature, as ordinary distance sensors often fail to reliably detect such objects.

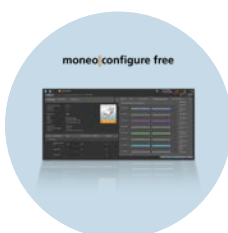
Ready for all kinds of challenges

Thanks to its compact and robust design as well as its analogue output, the highly precise OMH will also convince you in retrofit applications. IO-Link ensures easy parameter setting and data use in fully automated processes.

Technical data		
Measuring frequency	[Hz]	up to 1200
Temperature range	[°C]	0...50
Type of light / wave length	[nm]	laser light 630
Laser protection class		1
Electrical connection		M12, A-coded
Housing material		diecast zinc
Protection rating		IP67

BEST FRIENDS

We reserve the right to make technical alterations without prior notice. · 11.2023
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moneo|configure free
Software for parameter setting of the IO-Link infrastructure



USB IO-Link masters
For parameter setting and analysis of devices



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



For further technical details, please visit:
ifm.com/fs/OMH550