Fast and precise: photoelectric sensor measures distances in the µm range

Photoelectric sensors

Detects tiny objects in the micrometre range

Suitable for high-frequency applications

Three operating modes and a robust, compact design enable a wide range of applications

Convenient parameter setting and data readout on IT level

IP 67

IO-Link

0...10 V

4...20 mA

Class 1 laser

Precise object detection in demanding environments

The compact photoelectric distance sensor OMH shows its strengths where other sensors reach their limits.
For fast conveyor belt applications, it provides measuring frequencies of up to 1200 Hz in speed mode and detects tiny objects thanks to a resolution of up to 0.01 millimetres. With Power Mode, the OMH maintains this micrometre accuracy even when the nature of the objects makes them difficult for ordinary distance sensors to detect.

Given its high accuracy, precise arrangements and positioning of components, such as those required in battery cell production, can also be reliably ensured with the OMH.

Type	Measuring range [mm]	Resolution [mm]	Laser spot [Ø mm]	Operating module	Order no.
	30...80	0.01	0.5	digital	**OMH550**
	30...80	0.01	0.5	analogue I/U	**OMH551**
	50...200	0.05	1	digital	**OMH552**
	50...200	0.05	1	analogue I/U	**OMH553**
	50...500	0.5	1	digital	**OMH554**
	50...500	0.5	1	analogue I/U	**OMH555**

Technical data

Measuring frequency	[Hz]	up to 1200
Temperature range	[°C]	0...50
Type of light		red light
Laser protection class		1
Materials housing		diecast zinc
Electrical design		PNP/NPN
Protection rating		IP 67

Accessories

Type	Description	Order no.
	Angle bracket	**E21336**

Accessories IO-Link

	USB IO-Link master for parameter setting and analysis of devices	**AL1060**
	IO-Link master with PROFINET interface	**AL1100**
	moneo|configure SA (Stand-alone) licence, software for online and offline parameter setting of IO-Link devices including maintenance and support until the end of the following year	**QMP010**

Connection technology

	M12 connection cable, 2 m, PUR cable, black	**EVC013**
	M12 connection cable, 5 m, PUR cable, black	**EVC014**
	M12 connection cable, 2 m, PUR cable, black	**EVC068**
	M12 connection cable, 5 m, PUR cable, black	**EVC069**

ifm – close to you!