



Press release wpi 608 / 1018

Fachpresstag 2018

Compact time of flight sensor for Industry 4.0 applications

Essen, October 2018 – For the first time, ifm integrated their photoelectric PMD sensors (on-chip time of flight measure) into a compact M18 design, developing a sensor perfectly suited for Industry 4.0.

The PMD OGD Cube precisely measures the distance to the object via laser light and time of flight technology. Depending on the version, the range is 300 or 500 mm for the OGD Precision and 1500 mm for the OGD Long Range. Thanks to the small light spot diameter, the sensor can not only be used to detect big objects, it is also suitable for error-proofing applications, particularly in assembly automation. It offers enough precision and resolution to check for example the depth of bore holes or the installation of very small parts before the workpiece moves on to the next processing step (in-line quality checks).

The sensor has an IO-Link interface that not only transfers the measured value but makes it possible to remotely set all parameters. The sensor can be individually adapted to different workpieces or manufacturing situations. It is perfectly suited for Industry 4.0.

This makes the PMD OGD Cube an extremely compact and user-friendly problem solver for numerous applications.



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The new compact PMD distance sensor from ifm for Industry 4.0 applications.

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