

OCF fibre-optic sensor

Smart, fast and convenient



Product presentation

Product description

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When everything clicks into place!

When was the last time you installed a fibre-optic sensor? What? You don't even want to think about it? Then we've got good news: Things are about to get better. With the new OCF sensor, both fingernails and DIN rails will remain intact during assembly (and yes, also during disassembly), and the screwdriver can stay in the toolbox. Click, click, click – that's all you'll hear when clicking the fibre optics into the sensor and the sensor onto the rail. No swearing, no fumbling, no nothing.

The operation of the sensor is as simple: guided set-up, auto-selection of the best out of six operating modes, "Find me" function, "Clean me" function. The OCF has everything you need – inside and out. Including OLED display and IO-Link. Did it click? What more could an automation expert's heart desire!

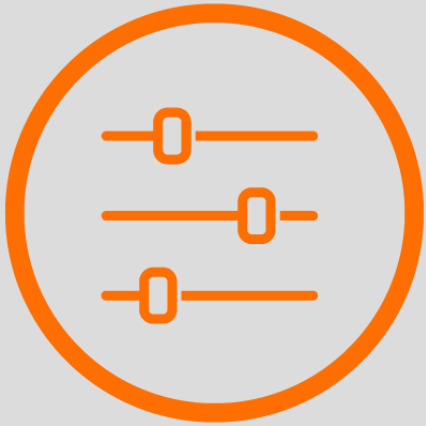
Need more information?

No problem! It's just another click to get to the details: ifm.com/gb/ocf



Product advantages

OCF – for good reasons.



Best performance in every application

Six operating modes and automatic selection via Smart Mode.



Dual channel: smart and fast

Two switching outputs for fast processes and diagnostics via IO-Link.



Quick set-up and intuitive menu navigation

OLED display, logical 3-button operation and a guided menu in 10 languages.



Smart clamping system and fibre locking

Toolless mounting and simple plugging in of the fibre optics.



Application overview

Detection of tiny objects

Screws in a spiral conveyor

Task

Check whether all screws are in the correct position

Challenge

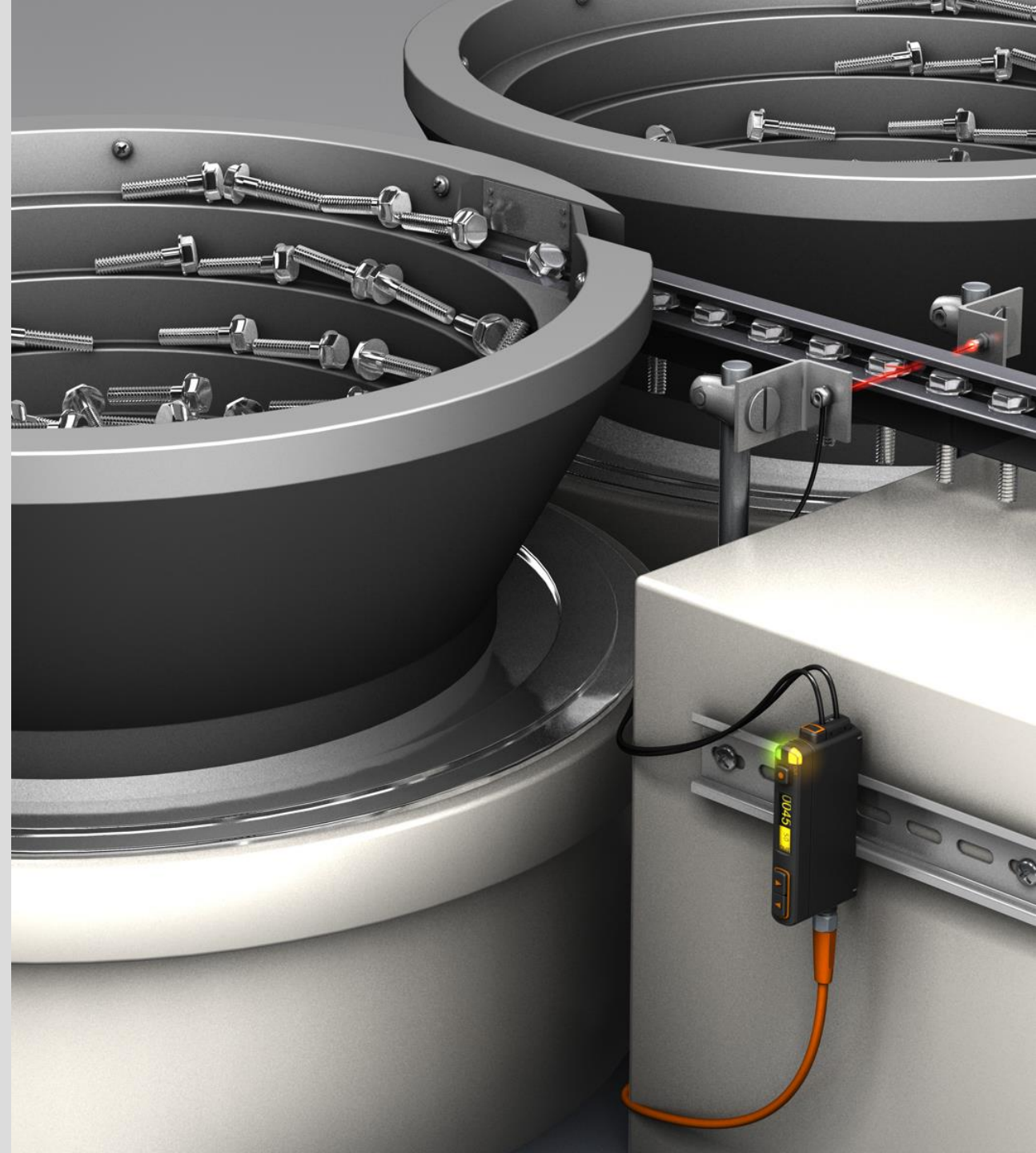
The screws are very small.

Essential advantage

Thanks to focused optics and very small light spot diameters, every single screw can be detected and the correct positioning can be verified. In addition, the screws can be counted using IO-Link.



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Application overview

Detection of very fast objects

Bottling line

Task

Check the feed of the bottles and whether bottle caps are present.

Challenge

The bottles move at a very high speed.

Essential advantage

Thanks to dual channel, the fast moving bottles can be detected while at the same time using diagnostic functions via IO-Link.



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Application overview

Detection of objects that are difficult to identify

Level control

Task

Detect whether a minimum level has been reached in a transparent vessel (e.g. bottle, glass or tube).

Challenge

The vessel and the liquid are transparent.

Essential advantage

The six different operating modes and the automatic mode selection prevent incorrect switching on surfaces that are difficult to detect (e.g. dark, transparent or shiny).



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Application overview

Use in demanding environments

Position monitoring

Task

Check the optimum positioning of a component.

Challenge

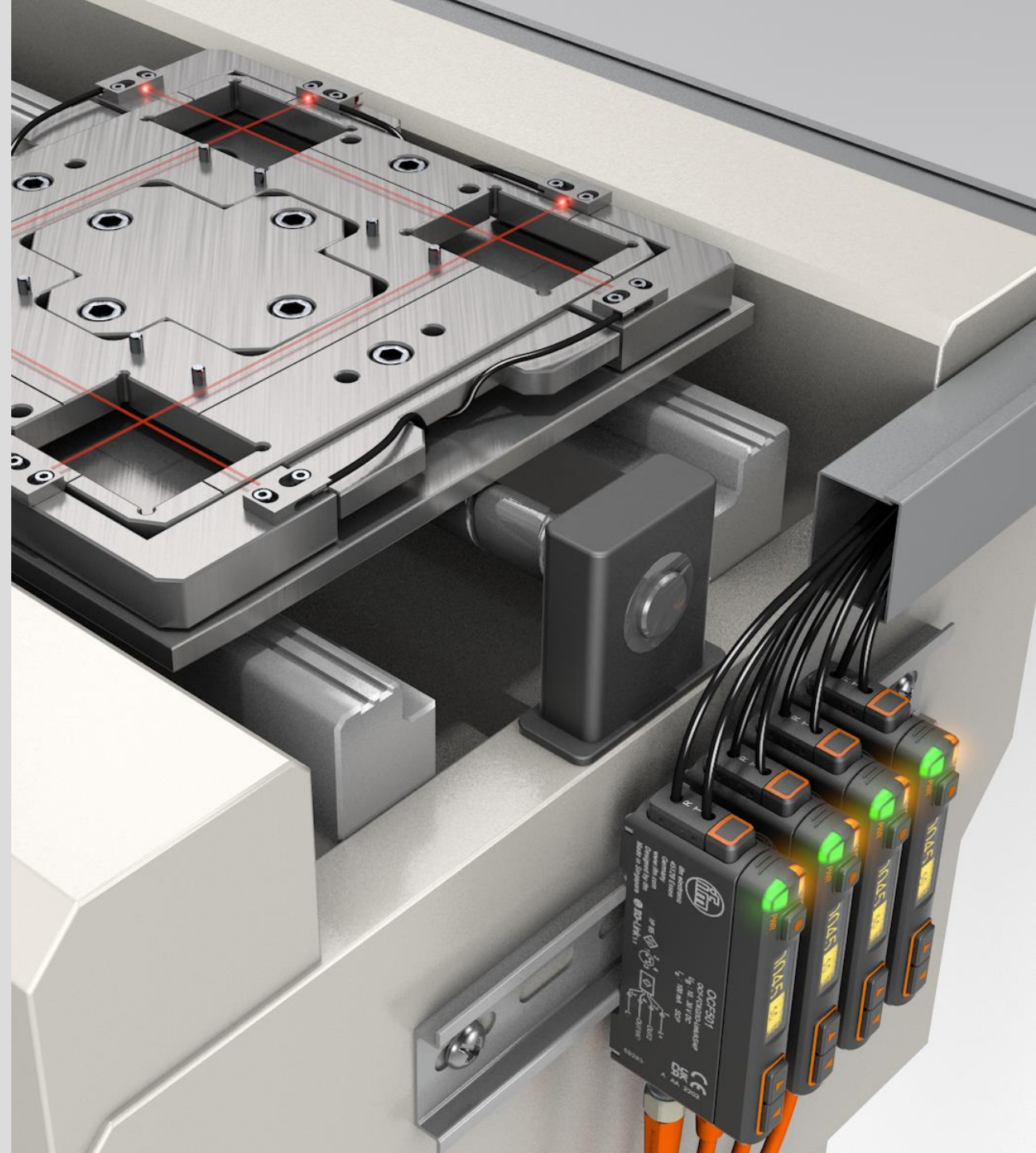
Space for mounting is limited. Oil or chemicals are often used.

Essential advantages

Due to the resistance to a variety of aggressive media, reliable detection is possible even under difficult conditions. In addition, the “Clean me” function enables monitoring of the degree of soiling via IO-Link, supporting predictive maintenance.



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Good to know

Get a head start!

Combine the new fibre-optic sensor with ifm's extensive fibre-optic portfolio and benefit from a high level of flexibility:



Extremely small bending radii and great number of bending cycles

Highly flexible with a minimum bending radius of 1 mm and up to 1 million bending cycles.



High resistance to temperature and chemical substances

Resistant to temperatures up to 290 °C and demanding environments thanks to a stainless steel and/or metal-silicone sheath.



Wide range of sensing heads

Not only variable in material, size, operating principle and design, but also in terms of range and light emission angle.

Find out which fibre-optic sensor fits your needs – [ifm fibre-optic selector](#)



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