OCF fibre-optic sensor

Compact, accurate, resistant

Product description

OCF fibre-optic sensor

Brain and eye

No space for photoelectric sensors? No way. The OCF fibre-optic sensor will find enough space even in the smallest gaps to detect objects and monitor process quality. Of course, the sensor does not do this alone, but acts as the brain in the background/control cabinet while the appropriate fibre optics – of which we offer quite a few – take on the role of the eye in the niche.

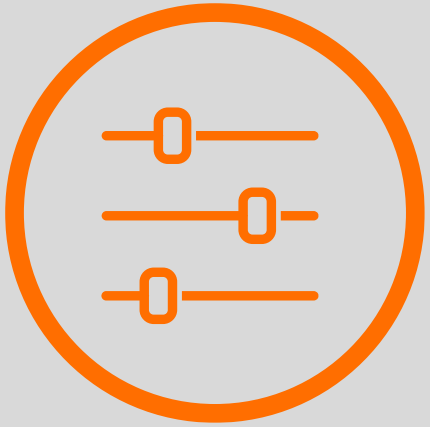
Thanks to the clever connector, you can connect the fibre optics to the OCF easily and conveniently – without screws or errors.

The operation of the sensor is as simple: Multilingual guided set-up? “Find me” function, “Clean me” function. The OCF has everything you need – inside and out. Including OLED display and IO-Link. What more could an automation expert’s heart desire!

Would you like to take a closer look? No problem!
You will find more information at **ifm.com/gb/ocf**

Product advantages

OCF – for good reasons.



Best performance in every application

Thanks to six operating modes for precise detection in a wide range of applications.

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

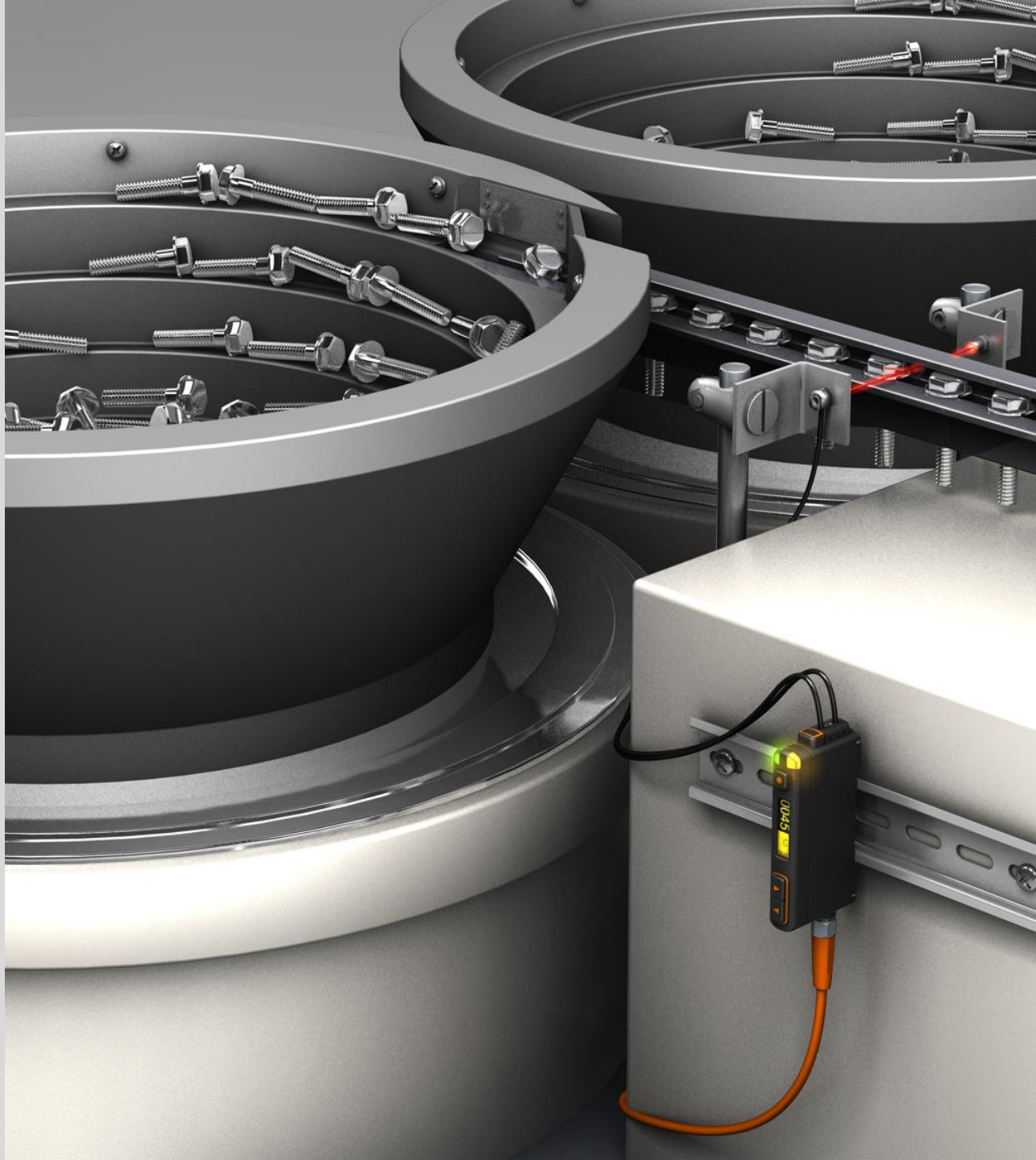
Check whether the rail is filled for further processing.

Challenge

Small parts and limited installation space due to guide rail.

Key advantage

Thanks to the focussed optical system and very small light spot diameters, every single part can be detected. In addition, the objects can be counted using IO-Link.



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.

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

Application overview

Detection of objects that are difficult to identify

Level control

Task

Detect whether a minimum level in transparent containers has been reached.

Challenge

The vessel and the liquid are transparent.

Key advantage

The six operating modes and other functionalities prevent faulty switching and ensure long-term functional stability, even with objects that are difficult to detect.

Application overview

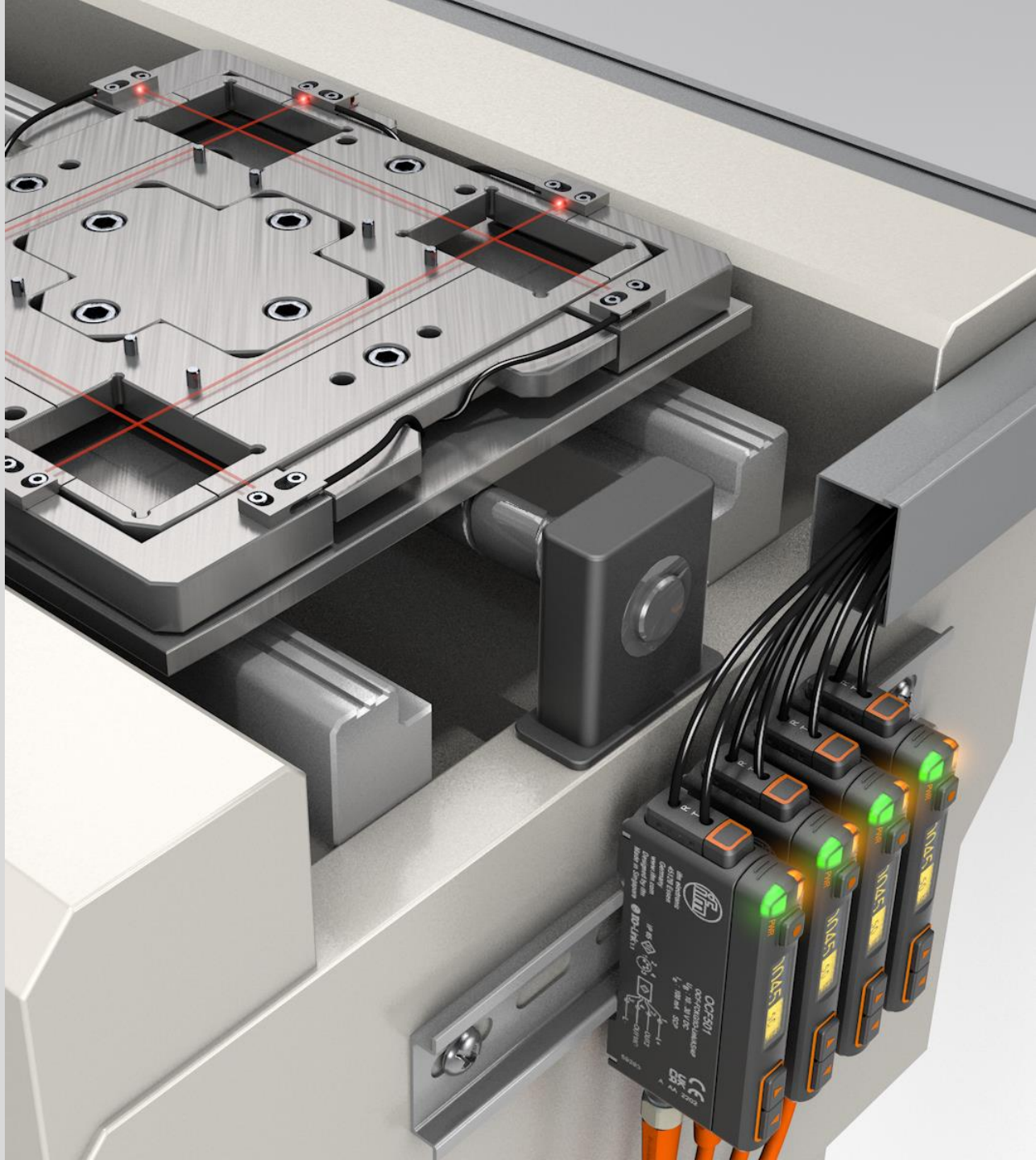
Use in demanding environments

Position monitoring

Task
Check the optimum positioning of a component

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

Key advantage
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.



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

Bot 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**

OCF fibre-optic sensor

ifm.com