

SmartReflect™

The light barrier without reflector.



A world first from Baumer:

SmartReflect[™] – reliable and economical.

With *SmartReflect*[™] Baumer has reinvented the optical light barrier: The reflector as the weak point is eliminated and highly reliable object detection is still guaranteed. That reduces your costs tremendously. Since every interruption of the light beam by

any object is detected thanks to the *SmartReflect*[™] principle, the *SmartReflect*[™] light barrier can reliably detect objects independent of their shape, color or surface finish.

The *SmartReflect*[™] detects virtually anything – even mirrors.

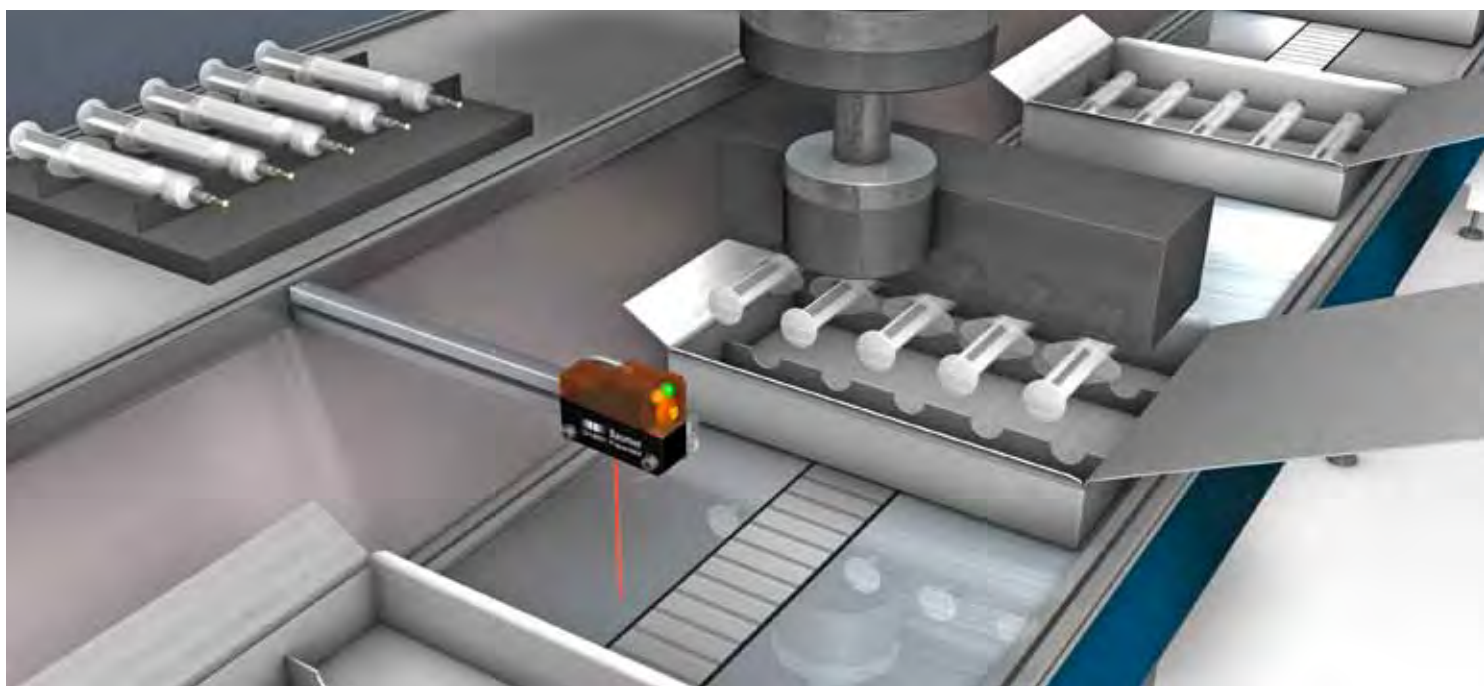
Increase your functional reliability.

- Highly reliable object detection thanks to the sensor principle
- Greater process safety through elimination of the reflector as the weak point
- No function impairment from dirt accumulation

Reduction of operating costs.

- No separate reflector/receiver
 - No investment or installation costs
- Regular reflector replacement not required
 - No production downtimes
- Expensive reflector cleaning not required
 - No maintenance costs

Wouldn't you like to save money too?



Individual solutions for your industry.



Food & beverage



Materials handling



Graphic industry



Packaging



Logistics



FNDH 14

The first EHEDG-certified sensor for the food industry which was developed especially for the hygienic zone. Not even hot cleaning affects its service life.

- Long-term seal thanks to *ProTect*⁺
- V4A stainless steel housing
- IP69K



FNDR 14

The perfect sensor for the splash zone. Withstands even harsh cleaning with jets of water and intensive use of cleaning agents in the food industry.

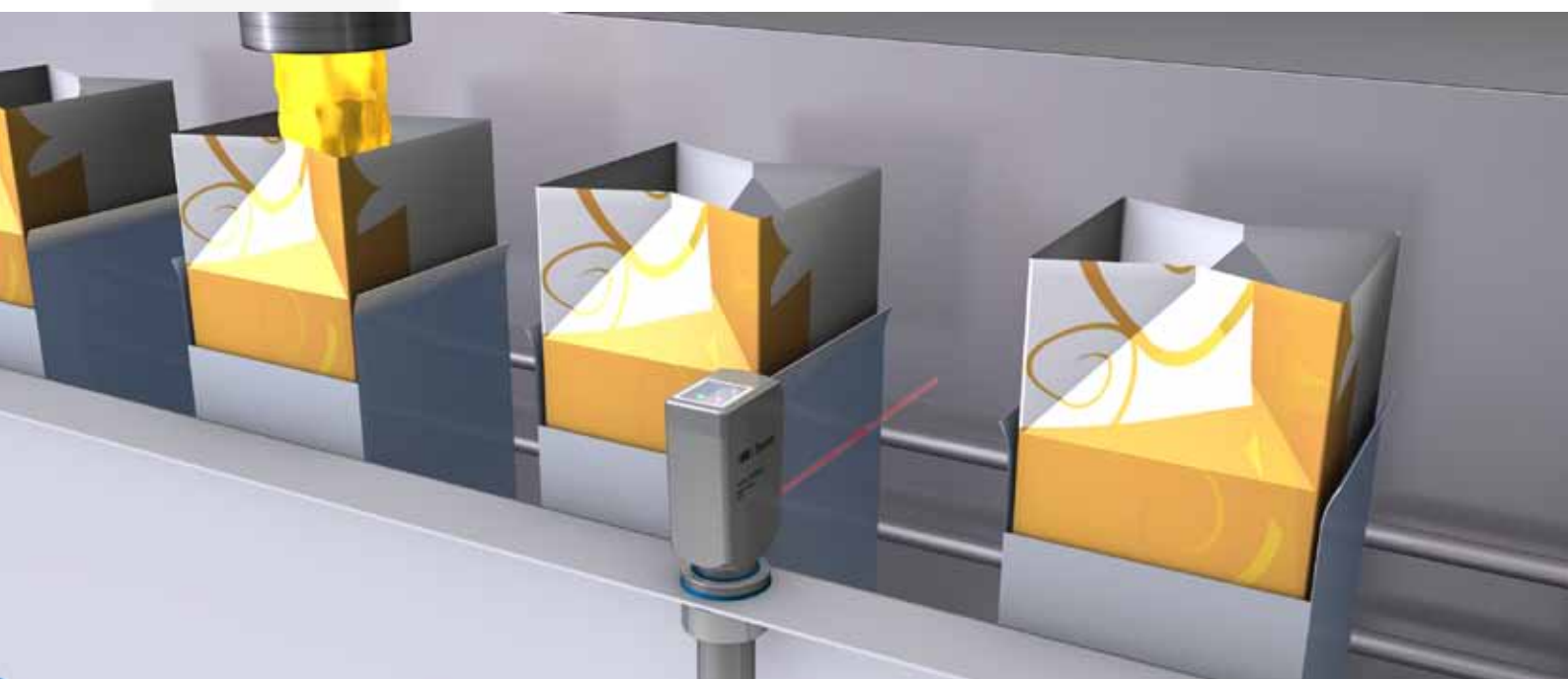
- Ecolab-certified and FDA-compliant
- Long-term seal thanks to *ProTect*⁺
- IP69K



FNDK 14

The classic sensor for industrial automation. A compact design and easy use are among the outstanding features of this sensor.

- Wide variety of options
- Good price-performance ratio
- Proven design



We at Baumer know that different industries can require different features.

That's why we manufacture the *SmartReflect™* light barrier in different versions individually matched to the needs of your field. For example hygiene-certified by EHEDG for the food industry, space-saving and flexible for handling technology or easy to adjust and not sensitive to soiling or dust for the graphical industry. Increase your process safety with *SmartReflect™*.



FNCK 07

The smallest photoelectric sensor; can be used in applications with limited space conditions.

- Smallest, adjustable sensor family
- Installation in the most confined space
- Easy to operate and very precise



ONDK 25

The sensors for the largest range. They are easy to adjust and low maintenance. Laser class 1 makes additional protective measures unnecessary.

- Long range up to 2000 mm
- *qTeach™* operation with ferromagnetic tool
- Easy to operate and extremely robust



O500

The new performance category in optical sensor technology. Available with standard LED or with Baumer *PinPoint* LED.

- *qTarget™* makes installation easier
- *OneBox Design* facilitates planning
- *qTeach™* operation with ferromagnetic tool



SmartReflect™ – clear advantages in transparency detection.

Special *SmartReflect*™ variants recognize transparent objects over a detection range of up to 800 mm, a unique innovation in the photoelectric market. Transparent trays, PET bottles, glass containers, etc. are reliably detected. Even highly transparent foils are no problem for the *SmartReflect*™ light barriers.

SmartReflect™ light barriers for transparent object detection are available in hygienic and washdown design as well as in plastic housing.



Detection of highly transparent materials, in the food industry, graphical industry or in packaging technology, etc.



Smart products for all requirements.



Plastic housing	Stainless steel housing	Description	IO-Link	Red light	PinPoint LED	Laser class 1	Connection	Sensing distance	Order reference
■		Ultra sub-miniature housing		■			Mating connector M8	45 mm	FNCK 07P6910/KS35A
■		Fast response time			■		Connector M12	600 mm	O500.SP-11096080
■		Non-transparent objects	■	■			Connector M12	800 mm	FNDK 14G6904/S14/IO
	Washdown-Design	Non-transparent objects	optional	■			Connector M12	800 mm	FNDR 14G6901/S14
	Washdown-Design	Detection of transparent trays/PET bottles	optional	■			Connector M12	800 mm	FNDR 14G6902/S14
	Washdown-Design	Detection of transparent foils	optional	■			Connector M12	800 mm	FNDR 14G6903/S14
	Hygienic-Design	Non-transparent objects	optional	■			Mating connector M12	800 mm	FNDH 14G6901/KS34A
	Hygienic-Design	Detection of transparent trays/PET bottles	optional	■			Mating connector M12	800 mm	FNDH 14G6902/KS34A
	Hygienic-Design	Detection of transparent foils	optional	■			Mating connector M12	800 mm	FNDH 14G6903/KS34A
■		Detection of transparent trays/PET bottles	■	■			Connector M12	800 mm	FNDK 14G6902/S14/IO
■		Detection of transparent foils	■	■			Connector M12	800 mm	FNDK 14G6903/S14/IO
■		Long range			■		Connector M12	2000 mm	ONDK 25G6911/S14



For more information about the *SmartReflect™* light barrier check out our web special at www.baumer.com/smartreflect.

Find your local partners at: www.baumer.com/worldwide

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Passion for Sensors

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SmartReflect™ video clip
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