



Blue has no limits

Meet all your sensing needs with one device

NEW
FT 10-BHD
with
2 switching outputs



BlueLight sensors for every application


From the F 10, F 25, F 50 and F 55 series



Developed specifically for difficult-to-detect objects, **BlueLight** sensors are true do it all sensors.

The **BlueLight** series offers much greater detection efficiency than standard optical sensors in challenging applications – whether with extremely shiny, strongly light-absorbing or highly transparent objects.

BlueLight – Product overview

Type	Adjustment	Scanning distance	Hysteresis
FT 10-BF2 / BF3	Fixed focus	2 ... 30 mm // 2 ... 50 mm	< 0.5 %
FT 10-BH	Adjustable, IO-Link	3 ... 100 mm	< 1.2 %
FT 10-BHD 	Adjustable, IO-Link	3 ... 150 mm	< 2.4 %
FT 25-BF2	Fixed focus	0 ... 80 mm	< 1 %
FT 25-BH	Adjustable, IO-Link	0 ... 200 mm	< 2 %
FT 50 BH	Adjustable (potentiometer)	2 ... 300 mm	< 1 %
FT 55-BH	Adjustable (potentiometer)	3 ... 1200mm	< 10 %



Industry Application Examples

Automotive

- Detection of metallic and highly light-absorbing components

Packaging

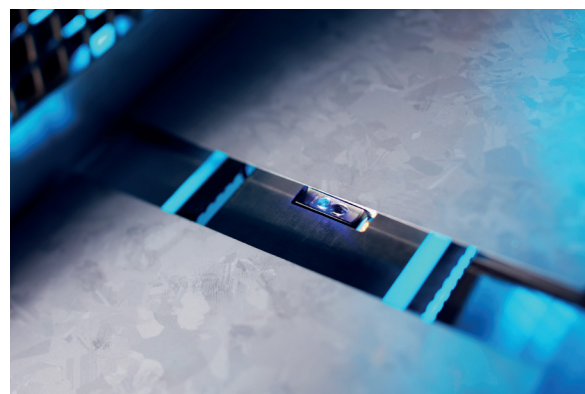
- Detection of transparent films / containers / bottles and labels

Pharmaceutical

- Presence and positioning of shiny blister packs

Solar

- Detection of presence and position of wafers



Blue light makes black visible.

Sensors with blue light

Transparent, shiny and deep black parts present enormous challenges for proximity sensors. Sufficient process stability cannot always be achieved during detection, in which case optical sensors ultimately have to be replaced by other sensor principles (photoelectric sensors, ultrasonic sensors etc.).

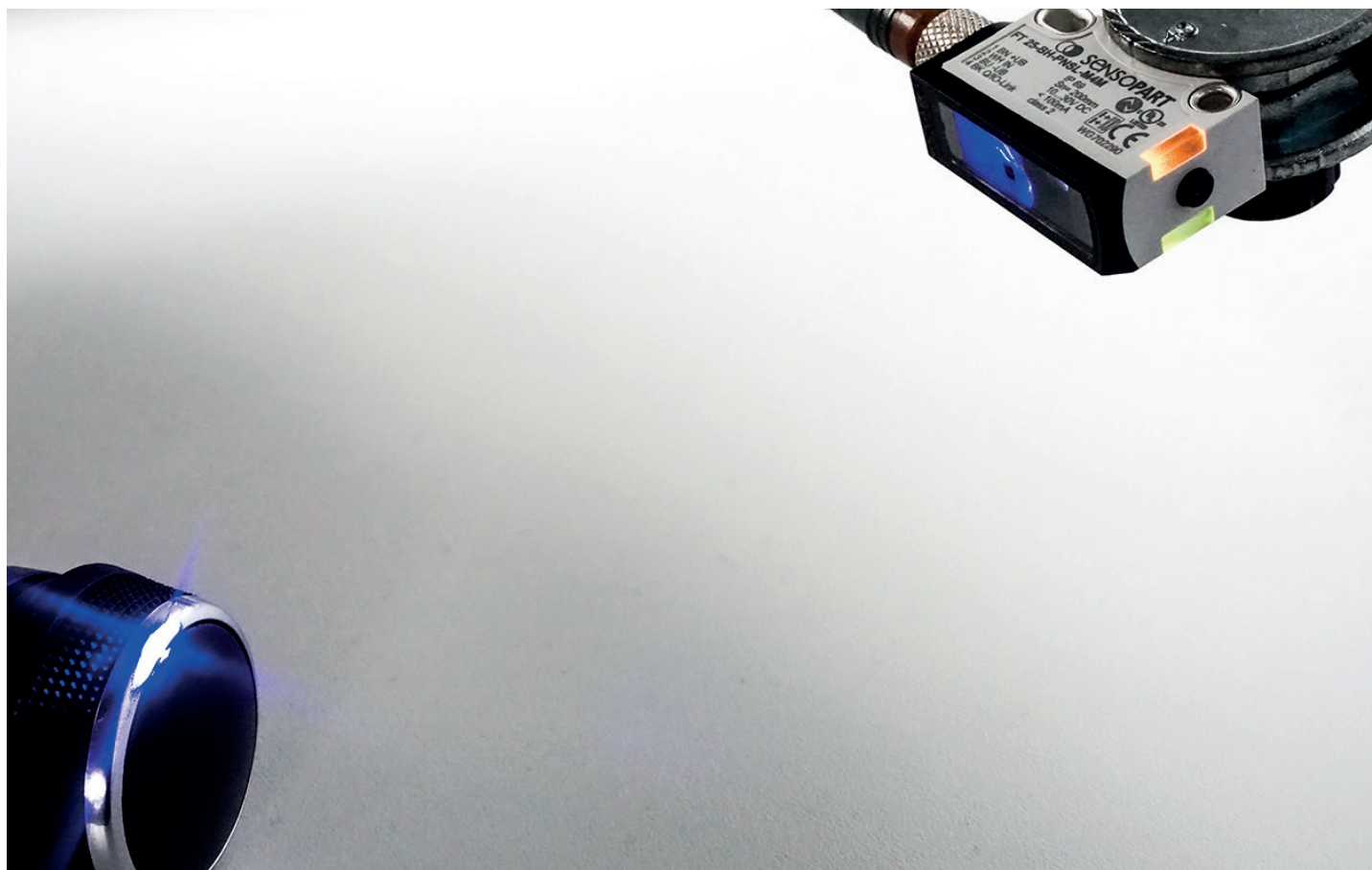
Optical blue light sensors represent a cost-efficient alternative to such complex solutions, and offer much greater process stability than conventional red light proximity sensors in many critical applications.

The sensor achieves very high process stability thanks to its instantaneous response, regardless of the shape, color or structure of the object to be detected.

Some applications can even involve a combination of several critical factors, e.g. black objects with a high gloss surface and a wide detection angle.

Even when faced with such multiple challenges, BlueLight sensors have repeatedly proven their worth.

Thanks to SensoPart's innovative receiver technology and a high-precision optical concept, BlueLight sensors demonstrate excellent sensor characteristics. Combined with significantly higher process stability, this opens up a whole new range of possibilities in the detection of 'difficult' objects.

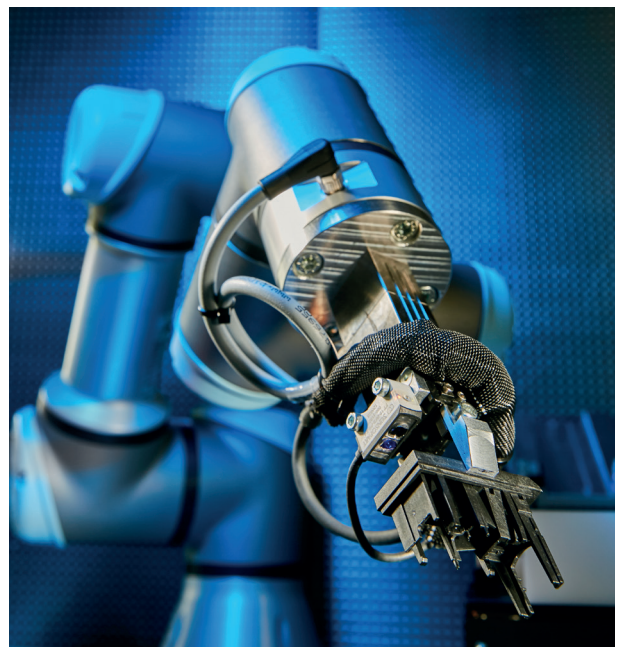




They are small, black and are rapidly multiplying: the number of dark to deep black plastic parts is constantly growing throughout all sectors.

BlueLight sensors are now successfully used in a wide range of applications involving light-absorbing objects. For example, to detect the presence of carbon fiber components or matt black interior trim panels in the automotive industry or black, round plastic caps on a conveyor belt. BlueLight sensors also prove outstanding when detecting black or reflective metal parts.

The simple and cost-efficient BlueLight sensor is now the answer for these and many other applications and is also replacing the retro-reflective photoelectric sensors previously in use.



In subminiature housing

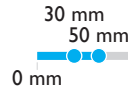
Measuring just 21.1 x 14.6 x 8 mm, the F 10 BlueLight is perfect for installation in confined spaces.

Overview: BlueLight.

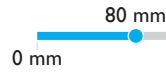
Technical Overview

FIXED FOCUS


FT 10-BF2 / BF3



FT 25-BF2



ADJUSTABLE

FT 10-BH 



FT 10-BHD  



FT 25-BH 



FT 50 BH



FT 55-BH





- Precise, fixed focus background suppression
- Ideal for mounting on robot grippers



- Robust detection from 0 mm
- Precisely fixed background suppression
- Reliable object detection even at very large angles of inclination



- Precisely adjustable background suppression
- Reliable switching behaviour with strongly lightabsorbing objects
- Sensor settings via teach-in, control input and IO-Link



- Precisely adjustable background suppression
- Detect-All mode for stable object detection
- Optimum detection of hard-to-detect objects with excellent sensory properties
- IO-Link interface with switching point adjustment in millimetres



- Optical presence detection of the latest generation
- Optimum detection of hard-to-detect objects with excellent sensory properties
- IO-Link interface with switching point adjustment in millimetres



- Precisely adjustable background suppression
- Simple adjustment of scanning range thanks to indicator scale



- Adjustable background suppression (potentiometer)
- Safe operation even with reflective or shiny backgrounds

Blue has no limits

Discover the next generation of object detection, with our cool, easy to use BlueLight sensors.

Meet all your sensing needs with a single rugged, reliable device.



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