Vision sensors and systems | Optical sensors | Ultrasonic sensors | Inductive sensors

Blue misses nothing.

Object detection of the newest generation

BlueLight

Blue light sensors of diverse formats.

BlueLight sensors from the F 10, F 25, F 50 and F 55 series.

Developed specifically for recognising objects that are difficult to detect, BlueLight sensors are true all-rounders. 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	Type of light	Adjustment	Scanning distance/Range
FT 10-BF2 / BF3	LED, blue 450 nm	Fixed focus	2…30 mm // 2…50 mm
FT 25-BF2	LED, blue 450 nm	Fixed focus	0…80 mm
FT 25-BH	LED, blue 450 nm	Adjustable, IO-Link	0…200 mm
FT 50-BH	LED, blue 450 nm	Adjustable (potentiometer)	2…300 mm
FT 55-BH	LED, blue 450 nm	Adjustable (potentiometer)	3…1200mm

Examples of sectors and applications

→ **Automotive industry**

- Robust identification of metal objects with high-gloss surface
- Detection of deep black components

→ **Packaging industry**

- Detection of transparent film / containers / labels

→ **Pharmaceutical industry**

- Positioning of transparent test tubes / syringes / pipette tips

→ **Solar industry**

- 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, colour 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, blue light 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 fibre components or matte 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 blue light 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 8mm, the F 10 BlueLight is perfect for installation in confined spaces.

We look ahead

Yesterday, today and in the future

"We gauge ourselves not by what is possible today, but by our vision of what can be achieved" – this has been our motto since the foundation of SensoPart in 1994. Our goal is to always be a step ahead and to be able to offer our customers the most innovative sensor for industrial automation.

True to this motto, we offer easy-to-integrate VISOR® vision sensors and compact laser sensors with outstanding background suppression made in Germany.

We still also have plenty of ideas for the future - watch this space.

SENSOR TECHNOLOGY

Light barriers	Vision sensors
Diffuse sensors	Smart cameras
Laser sensors	Vision systems
Miniature sensors	Object detection
Distance sensors	Object measurement
Color sensors	Color detection
Contrast sensors	Code reading
Anti-collision sensors	Lighting
Slot sensors	Lenses
Fiber-optic sensors	
Inductive sensors	
Ultrasonic sensors	

Germany
SensoPart
Industriesensorik GmbH
79288 Gottenheim
Tel. +49 7665 94769-0
info@sensopart.de

France
SensoPart France Sarl
662, rue des Jonchères – Bât. A
F-69730 GENAY
Tel : +33 164 730061
info@sensopart.fr

United Kingdom
SensoPart UK Limited
Pera Business Park, Nottingham Road,
Melton Mowbray, Leicestershire, LE13 0PB
Tel. +44 1664 561539
uk@sensopart.com

USA
SensoPart Inc.
30600 Telegraph Rd.
Suite 2345,
Bingham Farms, MI, 48025
usa@sensopart.com

China
SensoPart China
201803 Shanghai
Tel. +86 21 69017660
china@sensopart.cn