Opto-electronic sensors SOOD

FESTO

Mini and flexible

Install and start!

Highlights

- Easy operation
- Quick commissioning
- Reliable and stable detection
- Low complexity, PNP and NPN in one device
- Attractive price/ performance ratio

The opto-electronic sensors SOOD are the perfect solution for a wide variety of object detection tasks – even in very confined application environments. They are fast and cost effective thanks to an integrated concept with standardised sensor functions and reusable mounting accessories.

Engineering in record time
The sensor SOOD can be used straightaway in almost all applications without needing to be parameterised.

Up for every challenge
The required range of functions can be freely selected depending on the task, from background suppression to through-beam sensor. To achieve this unprecedented level of flexibility and versatility, the SOOD is equipped with LEDs or laser LEDs and visible, red wavelengths.

Unique laser technology
The eye-safe laser LEDs from laser class 1 are particularly durable. Their focused light emitters make expensive fibre-optic cable solutions with focusing lenses superfluous. The setup times are also reduced, while the sensor response time of just 250 μs plus background suppression increases the throughput – virtually independently of colour.

Opto-electronic sensors SOOD

For up to 95 per cent of all automation applications

As a retro-reflective sensor with polarisation filters, sensors SOOD also reliably and safely detect reflective objects. In addition, they reduce the amount of wiring required and the maintenance costs compared with conventional through-beam sensors. The laser through-beam sensors demonstrate their strengths for the detection of small parts even at large distances. Thanks to the extremely precise light spot, even the smallest objects or

features can be detected quickly and reliably, e.g. notches or minimum height differences for detecting the correct position.

Machine availability is also significantly increased thanks to an antistatic, flat and abrasion-resistant front panel that prevents dirt deposits or scratches.

Key benefits at a glance

- Wide range of operating modes in one sensor size
- Precise object detection at a distance of 1 mm to 10 m
- Resistant to external light and not influenced by reflective object surfaces
- Reliable detection of dark surfaces
- Reliable suppression of objects in the background
- Functional even under changing conditions
- Good resistance to environmental influences

Technical data

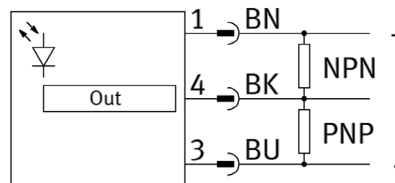|	SOOD
Switching output	PNP/NPN (push-pull)
Operating voltage range [VDC]	10 ... 30
Laser protection class	Laser class 1
Electrical connection	150 mm cable with M8x1, 3-pin
Degree of protection	IP65, IP67
Approval certificate	c UL us - Recognized(OL)

Variants

Function	SOOD LED	SOOD laser
Diffuse sensor with background suppression	•	•
Through-beam sensor	•	•
Retro-reflective sensor	•	•

Dimensions
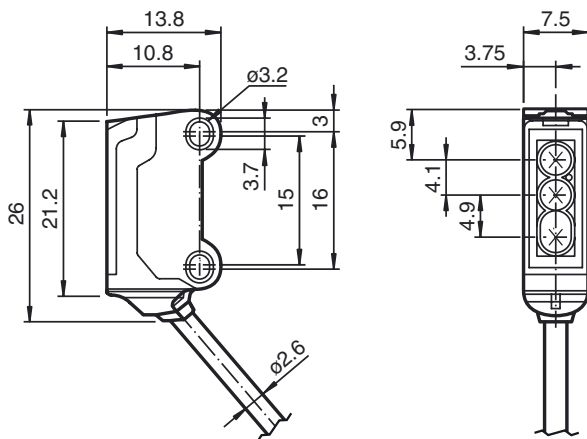
Electrical connection

Wire colours to EN 60947-5-2