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PRODUCT OVERVIEW

V180

Photoelectric sensors

SICK

Sensor Intelligence



PHOTOELECTRIC SENSORS

V180

Lowest-cost cylindrical photoelectric sensor on the market!

The V180 sensors were developed to be able to offer a maximum scanning range. The cost-effective cylindrical sensors are easy to operate and simple to install and maintain. This minimizes the installation time and maintenance costs. The V180 sensors are available both in a plastic and metal housing. The bright red light LED with easily visible light spot simplifies installation. In addition, the highly visible status indicator makes troubleshooting quick and easy.

The V180 therefore provides an economical solution for many universal applications such as product detection, positioning in packaging machines, manufacturing automation, and material and conveying technology.

V180 AT A GLANCE

BENEFITS

- Cost-effective cylindrical M18 sensor lowers installation costs
- Brightly lit red emitter LED simplifies alignment and saves mounting time
- Bright status display with 360° visibility enables quick and easy troubleshooting and thus reduces maintenance costs and time
- The flat, smooth front screen reduces the accumulation of dust and dirt. This ensures reliable operation and reduces both maintenance and costs

FEATURES

- Low-cost M18 housing sensor on the market
- Long sensing distances: 100 mm, 400 mm, 800 mm (proximity sensor), 300 mm (proximity sensor with BGS), 6 m (retro-reflective sensor) and 20 m (through-beam sensor)
- Bright power and signal LEDs with 360° visibility
- Wide product portfolio solves a broad range of applications
- High switching frequencies up to 1000 Hz
- Available in a metal housing for applications in harsh environments
- Optical axis selectively axial or radial (90°)

TECHNICAL DATA OVERVIEW

Dimensions (W x H x D)	18 mm x 18 mm x 62.5 mm 18 mm x 18 mm x 76.5 mm 18 mm x 18 mm x 69.8 mm 18 mm x 18 mm x 83.8 mm 18 mm x 18 mm x 62.9 mm 18 mm x 18 mm x 76.9 mm 18 mm x 18 mm x 70.2 mm 18 mm x 18 mm x 84.2 mm 18 mm x 18 mm 18 mm x 18 mm x 63.3 mm 18 mm x 18 mm x 69 mm 18 mm x 18 mm x 70 mm
Optical axis	Axial / radial
Sensing range max.	
Photoelectric proximity sensor	0 mm ... 1,100 mm ¹⁾
Photoelectric retro-reflective sensor	0.05 m ... 7 m ²⁾
	0.05 m ... 7 m
	0.05 m ... 3 m ³⁾
Through-beam photoelectric sensor	0 m ... 28 m
Light source	LED
Type of light	Visible red light / Infrared light
Enclosure rating	IP67 / IP66
Housing material	Metal / plastic

¹⁾ Object with 90% remission (based on standard white, DIN 5033).

²⁾ Reflector PL80A.

³⁾ Reflector P250.

Select the right product variant and accessories directly online. There you will also find example applications as well as downloads such as CAD dimensional models, operating instructions and software.

www.sick.com/V180



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnership with our customers is more than just a promise: Together, we optimize productivity, elevate quality, protect health and safety, and sustain the future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions.

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