



SureSense

The sure way to detect any object

HYBRID PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Technical data overview

Dimensions (W x H x D)	16.2 mm x 50.1 mm x 34.4 mm 16.2 mm x 50.1 mm x 31.4 mm
Sensing range max.	0.03 m ... 6.5 m ¹⁾ 0 m ... 20 m 5 mm ... 1,000 mm ²⁾
Light source	PinPoint LED / LED (depending on type)
Type of light	Visible red light / Infrared light (depending on type)
Enclosure rating	IP67 IP69K
Housing material	Plastic VISTAL®

¹⁾ Reflector PL80A.

²⁾ Object with 90 % reflectance (referred to standard white, DIN 5033).



Product description

The SureSense family of photoelectric sensors provides reliable detection of virtually any object in any environment. This versatility allows detection of the very basic to most difficult objects including black, shiny, transparent, varying color and more. SureSense does this by providing best-in-class performance along with an extremely broad offering of sensing options, output types and advanced features. Plus, an intuitive signal strength light bar makes installation and troubleshooting easier than ever. All this cutting edge technology is built into a VISTAL™ housing, which is 9 times stronger than ABS housings.

At a glance

- The most flexible and complete portfolio of hybrid sensors
- New and intuitive light strip
- Best background suppression in the sector
- Detection of transparent objects with AutoAdapt technology
- VISTAL housing

Your benefits

- Solve the vast majority of a customer's applications with a single sensor family
- Standardize mounting designs, accessories, set-up procedures and suppliers
- Fast and simple alignment during installation
- Continuous indication of signal strength
- Reliably sense objects of varying colors and materials
- Transparent object detection in tough environments with minimal need for additional cleaning
- Reduce replacement costs and down time due to damages during installation or use
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Fields of application

- Machines with a wide variety of detection tasks
- Detection of transparent objects
- Detection of objects with a wide variety of colors
- Applications with AC power supply
- Detection of small objects and through small openings
- OEM machine construction (e.g., packaging industry, consumer goods, wood processing, etc.)

Ordering information

Other models and accessories → www.sick.com/SureSense

- **Mounting system type:** M18, nose / M18, base / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Photoelectric retro-reflective sensor, Dual lens
- **Sensing range max.:** 4 ... 7 m

Sensing range	Switching output Q1	Connection type	Type	Part no.
6.5 m	MOSFET, Dark switching	Cable open end, 2,000 mm	HL18B-M1G3AH	1106151
		Cable with connector, Micro (1/2"-20), 4-pin, 150 mm	HL18B-M5B3AH	1110563

- **Mounting system type:** M18, nose / M18, base / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Through-beam photoelectric sensor
- **Sensing range max.:** 12 ... 20 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
20 m	NPN, Light switching	NPN, Dark switching	Cable with M12 male connector, 4-pin, 150 mm	HSE18B-N4B1AA	1110564

- **Mounting system type:** M18, nose / M18, base / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Photoelectric proximity sensor, Energetic
- **Sensing range max.:** 500 ... 1000 mm

Sensing range	Switching output Q1	Connection type	Type	Part no.
1,000 mm	MOSFET, Light switching	Cable open end, 2,000 mm	HTE18B-L1G1AH	1110562

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com