SureSense
The sure way to detect any object

HYBRID PHOTOELECTRIC SENSORS
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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

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

<table>
<thead>
<tr>
<th>Sensing range</th>
<th>Switching output Q1</th>
<th>Connection type</th>
<th>Type</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5 m</td>
<td>MOSFET, Dark switching</td>
<td>Cable open end, 2,000 mm</td>
<td>HL18B-M1G3AH</td>
<td>1106151</td>
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<tr>
<td></td>
<td></td>
<td>Cable with connector, Micro (1/2&quot;-20), 4-pin, 150 mm</td>
<td>HL18B-M5B3AH</td>
<td>1110563</td>
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</tbody>
</table>

- **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

<table>
<thead>
<tr>
<th>Sensing range</th>
<th>Switching output Q1</th>
<th>Switching output Q2</th>
<th>Connection type</th>
<th>Type</th>
<th>Part no.</th>
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</thead>
<tbody>
<tr>
<td>20 m</td>
<td>NPN, Light switching</td>
<td>NPN, Dark switching</td>
<td>Cable with M12 male connector, 4-pin, 150 mm</td>
<td>HSE18B-N4B3AA</td>
<td>1110564</td>
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</table>

- **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

<table>
<thead>
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<th>Sensing range</th>
<th>Switching output Q1</th>
<th>Connection type</th>
<th>Type</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000 mm</td>
<td>MOSFET, Light switching</td>
<td>Cable open end, 2,000 mm</td>
<td>HTE18B-L1G1AH</td>
<td>1110562</td>
</tr>
</tbody>
</table>
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