



Glare

The authority on gloss

SICK
Sensor Intelligence.



Technical data overview

Sensing distance	50 mm
Light source	LED, visible red light ¹⁾
Light spot size	10 mm x 12 mm
Adjustment	Static 1-point teach-in, Static 2-point teach-in, dynamic 2-point teach-in, Static 3-point teach-in
Connection type	Plug, M12, 5-pin

¹⁾ Average service life: 100,000 h at $T_U = +25$ °C.

Product description

The Glare sensor is specially designed to recognize and differentiate objects on the basis of their gloss in order to control production processes. The Glare sensor analyzes the spatial distribution of reflected light using Delta-S technology, which allows the sensor to determine the gloss level of flat object surfaces and to differentiate between objects of differing gloss levels. The measurement result is transmitted to the process controls either via two digital switching outputs or IO-Link. Several operating modes are available, making the Glare sensor perfectly suited to a range of different applications. The combination of intelligent signal evaluation algorithms, the multi-sensor arrangement and sensitivity adjustments ensure increased operational safety in industrial applications. The Glare's IO-Link interface enables the sensor to be integrated into the machine controller, featuring automatic, process-oriented configuration and online diagnostics.

At a glance

- Object detection and differentiation on the basis of surface gloss level
- Configurable in many different operating modes to meet the requirements of any application
- Integrated alignment aid
- Integrated automation functions
- Two digital push-pull outputs and one configurable input
- Sensitivity adjusts to object properties
- IO-Link provides easy data access from the PLC
- Quick and easy configuration

Your benefits

- Quick installation via alignment mode
- Integrated key lock reduces the risk of operating errors and tampering
- Sensitivity adjustments increase the system's operational safety
- Teach-in via the single teach-in button or SOPAS operating software facilitates quick and easy operation
- Reliable gloss identification regardless of color, labeling or structure increases operational safety
- State-of-the-art detection method makes it possible to conduct inspections at lower costs than with camera solutions
- Sensor's resistance to object fluctuations increases operational safety
- Flexible sensor settings, monitoring, advanced diagnostics, and visualization thanks to IO-Link

Fields of application

- Pharmaceutical industry: Detection of seal labels
- Automotive industry: Detection of oil, sprays, wax and adhesives
- Machine building: Monitoring of finishes and surface coatings of metals and other materials
- Food and beverage industry: Identification of transparent foils and glossy packaging materials
- Lumber industry: Identification of lacquers, coatings and adhesives
- Electronics and solar industries: Identification of coatings and lacquers

Ordering information

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

- **Communication interface:** -

Sensing distance	Switching output	Light spot size	Pin 5 configuration	Connection type Detail	Type	Part no.
≤ 50 mm	Push-pull: PNP/NPN	10 mm x 12 mm	None	Plug, M12, 5-pin	OPR20G-RB111517	1065685

- **Communication interface:** IO-Link

Sensing distance	Switching output	Light spot size	Pin 5 configuration	Connection type Detail	Type	Part no.
≤ 50 mm	Push-pull: PNP/NPN	10 mm x 12 mm	Keylock	Plug, M12, 5-pin	OPR20G-RB417537	1068823
			Teach-in	Plug, M12, 5-pin	OPR20G-RB317537	1068822
					OPR20G- RB317537A90	1072052
			counter reset	Plug, M12, 5-pin	OPR20G- RB517537A01	1072051

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