CSM
Mini, easy, smart

COLOR SENSORS

SICK
Sensor Intelligence.

Technical data overview

Sensing distance	12.5 mm [1]
Light spot size	1.5 mm x 6.5 mm
Switching frequency	1.7 kHz
Response time	300 µs [2]
Output (channel)	1 color / 8 colors via IO-Link (depending on type)
Adjustment	1-point teach-in
Connection type	Male connector Cable with male connector Cable (depending on type)

[1] From front edge of lens.

[2] Signal transit time with resistive load.

Product description

The new CSM color sensor from SICK offers improved gloss behavior combined with an IO-Link function and a miniature housing. The CSM is ideal for applications where color characteristics need to be detected reliably and installation space is at a premium. The sensor detects and monitors objects on the basis of their color. The small CSM color sensor can be set using a simple teach-in method, while the new IO-Link function enables intelligent diagnostics, visualization of sensor parameters, and straightforward format changes. Thanks to a switching frequency of up to 1.7 kHz, the CSM is also suitable for use with high-speed machines and manufacturing processes.

At a glance

• Color sensor in a new miniature housing
• Static and teach-in method for 1 color using control cable or control panel
• Over IO-Link up to 8 colors teachable
• Switching frequency: 1.7 kHz
• Sensing distance: 12.5 mm
• Compatibility with older color sensors thanks to cable with male connector M12

Your benefits

• Fast, seamless integration into existing applications thanks to a new miniature housing, saving time and money
• Increased switching frequency for improved machine productivity
• Flexible application possibilities thanks to a wide range of color tolerances
• Enhanced, intelligent diagnostics and visualization, as well as quick and easy format changes, thanks to IOLink function
• Quick and easy installation cuts down on installation time
• Sorting processes are simplified by the distinction of up to 8 colors in one job

Fields of application

Detecting, sorting, and checking colored objects and products with short sensing distances in the production or manufacturing processes (mechanical engineering and automotive industry)
Presence checking and identification of labels and boxes, even in confined spaces
Synchronization of working processes in the packaging industry, in bottling plants, and in sealing machines on the basis of color printing
• Object positioning based on various color characteristics

Ordering information

Other models and accessories ➜ www.sick.com/CSM

- **Communication interface:** -

Sensing distance	Switching output	Light spot size	Connection type Detail	Type	Part no.
≤ 12.5 mm	NPN	1.5 mm x 6.5 mm	Cable with M12 male connector, 4-pin	CSM-WN11122P	1067293
			Cable, 4-wire	CSM-WN11124P	1082174
	PNP	1.5 mm x 6.5 mm	Cable with M12 male connector, 4-pin	CSM-WP11122P	1067291
			Male connector M8, 4-pin	CSM-WP11121P	1096805

- **Communication interface:** IO-Link

Sensing distance	Switching output	Light spot size	Connection type Detail	Type	Part no.
≤ 12.5 mm	PNP	1.5 mm x 6.5 mm	Cable with M12 male connector, 4-pin	CSM-WP117A2P	1067294
			Male connector M8, 4-pin	CSM-WP117A1P	1097438

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**

SICK AG | Waldkirch | Germany | www.sick.com

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