LMS511-20190

Industrial automation components

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Manufacturer	Sick
Catalog number	lms511-20190
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Measurement Range	0.5 m to 20 m
Aperture Angle	190°
Scanning Frequency	35 Hz, 50 Hz, 75 Hz
Laser Class	1, eye-safe (IEC 60825-1:2014)
Communication Interfaces	Ethernet (TCP/IP), USB 2.0, RS-232/RS-422
Switching Inputs	2
Switching Outputs	6
Enclosure Rating	IP67
Supply Voltage	19.2 V to 28.8 V
Power Consumption	22 W (plus 55 W for heating)

Description

The Sick LMS511-20190 is a high-precision bulk solids flow sensor designed for non-contact measurement of bulk materials. Utilizing laser run-time technology, it offers a working range from 0.5 m to 20 m, with an aperture angle of 190°, ensuring comprehensive coverage. The sensor operates at scanning frequencies of 35 Hz, 50 Hz, and 75 Hz, providing flexibility for various applications. Its infrared light source (905 nm) is classified as Laser Class 1, eye-safe (IEC 60825-1:2014), ensuring safe operation in industrial environments. The LMS511-20190 features multiple communication interfaces, including Ethernet (TCP/IP), USB 2.0, and RS-232/RS-422, facilitating seamless integration into existing systems. It is equipped with two switching inputs and six switching outputs, enhancing its versatility in process control. The sensor is housed in a robust enclosure

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with an IP67 protection rating, suitable for demanding industrial conditions. With a supply voltage range of 19.2 V to 28.8 V and a power consumption of 22 W (plus 55 W for heating), it is designed for efficient operation. The LMS511-20190 is ideal for applications requiring precise flow measurement of bulk solids, such as in material handling and processing industries.

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