

SICK LMS511-20190

SICK LMS511-20190 | Bulkscan

FLOW SENSORS

Detailed technical data

Features

Measurement principle Laser run time technology

Medium Bulk solids

Communication interface Serial, RS-232

USB, RS-422

Light source Infrared (905 nm)

Laser class 1, eye-safe (IEC 60825-1:2014)

Aperture angle 190°

Scanning frequency 35 Hz

50 Hz

75 Hz

Bandwidth No limit

Heating Yes

Working range 0.5 m ... 20 m

Amount of evaluated echoes 5

Performance

Measurement accuracy

± 3 % at reference conditions

Response time 13 ms, 20 ms, 28 ms

Average filter 0 s ... 3,600 s

Max. conveyor speed ≤ 30 m/s

Interfaces

Auxiliary interface, Serial host interface, Ethernet

Number 1, 1, 1

Protocol USB 2.0

RS-232/RS-422

TCP/IP

Data transmission rate 500 kBaud

500 kBaud 100 Mbit/s

Switching inputs 2 + Encoder

Switching outputs 6

Analog signals Available with separate accessory BAM100

Optical indicators 5 LEDs Additional 7-segment display

Electronics

You can contact us through the following contact information

www.sparetechplc.com +86 180 3000 5825 sales@sparetechplc.com

Supply voltage 19.2 V ... 28.8 V
Power consumption 22 W + 55 W heating (typical)
Residual ripple $\pm 5\%$
Protection class ✓
Connection type M12 round connector
Output signal Ethernet
Digital inputs and digital outputs
USB auxiliary interface
RS-232/RS-422
Enclosure rating IP67 (IEC 60529)
MTTF > 100 years
Switch-on peak current 2 A
Operating current scanner ≤ 1.3 A
Switch-on time ≤ 60 s
Mechanics
Weight 3.7 kg
Housing color Gray (RAL 7032)
Dimensions 160 mm x 155 mm x 185 mm
Distance of the sensor to the bulk solid ≥ 0.5 m
Ambient data
Ambient operating temperature $-40\text{ }^{\circ}\text{C} \dots +60\text{ }^{\circ}\text{C}$
Electromagnetic compatibility (EMC) IEC 61000-6-2:2016-08 / IEC 61000-6-3:2006-07 / EN 61000-6-2:2005 / EN 61000-6-3 /
A1 2011
Ambient temperature, storage $-40\text{ }^{\circ}\text{C} \dots +70\text{ }^{\circ}\text{C}$
Ambient light immunity 70,000 lx

You can contact us through the following contact information

www.sparetechplc.com +86 180 3000 5825 sales@sparetechplc.com