DT20-P130B1050

Industrial automation components

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Manufacturer	Sick
Catalog number	dt20-p130b1050
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Measuring Range	100 mm to 500 mm
Resolution	1 mm or 2 mm
Repeatability	±1.5 mm
Measurement Accuracy	±4 mm
Light Source	Infrared LED
Light Type	Visible Red Light
Typical Light Spot Size	15 mm x 15 mm
Analog Output	4 mA to 20 mA
Supply Voltage	10 V to 30 V DC
Enclosure Rating	IP 65
Laser Service Life	100,000 hours

Description

The Sick DT20-P130B1050 is a high-precision displacement measurement sensor designed for industrial applications requiring accurate distance measurements. Manufactured by Sick AG, a leader in sensor technology, this sensor offers a measuring range from 100 mm to 500 mm, with a resolution of 1 mm or 2 mm, depending on the configuration. It provides repeatability of ±1.5 mm and measurement accuracy of ±4 mm, ensuring reliable performance in various environments. The sensor utilizes an infrared LED light source, emitting visible red light, with a typical light spot size of 15 mm x 15 mm at a distance of 1 meter. It features an analog current output ranging from 4 mA to 20 mA, suitable for integration into existing systems. The sensor operates within a supply voltage range of 10 V to 30 V

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DC and is housed in a rugged metal enclosure rated IP 65, making it suitable for harsh industrial conditions. The average laser service life is approximately 100,000 hours at 25°C, indicating long-term reliability. This sensor is ideal for applications such as position monitoring, material handling, and quality control processes, where precise distance measurements are critical.