

DLS 2 Digital Line and Edge Detection Sensor for Web Guiding

Line and Edge Detection Modes

Versatile and dependable in its operation

Resolution of 0.06 mm

High precision at affordable cost

Concise Operating Panel

Allows easy setup and straightforward use

LED Marker for Sensor Positioning

Accurate alignment on the reference line

Compact and Robust Construction

Reliable and maintenance free operation



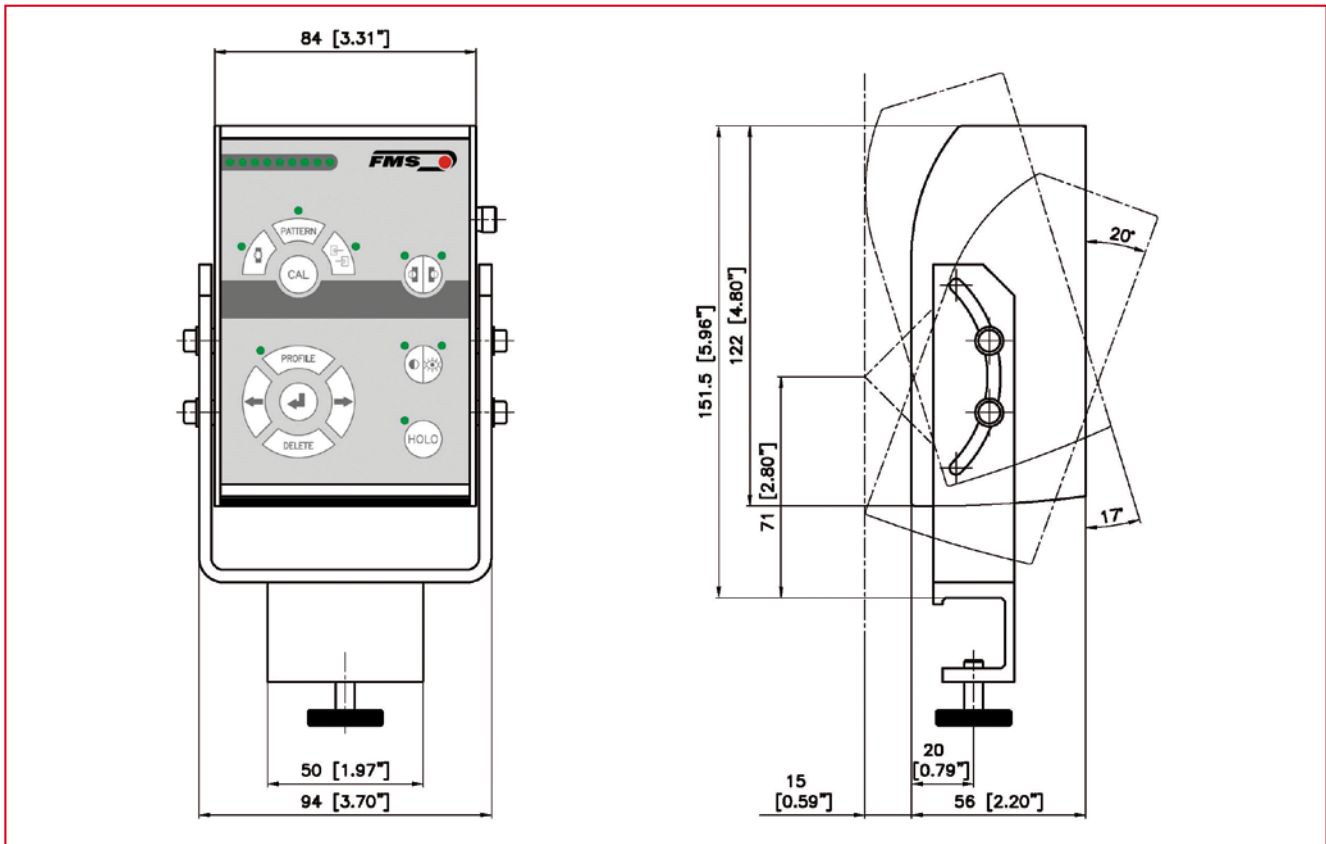
● DLS 2

The DLS 2 digital line and edge detection sensor is self-adjusting and easy to apply in all types of web guiding applications. In line detection mode, the sensor can handle a solid line, an intermittent line, and also a line that is adjacent to or crossed by a pattern. When a break in the line is detected (as in the case of an intermittent line pattern), the web guide will remain locked in that position until the line pattern is again recognized by the sensor. This safety feature is very useful as it guarantees continuity of production without machine stops or loss of material. The DLS 2 digital line and edge detection sensor is designed to be used in combination with the full line of FMS web guide controllers.

● Functional Description

The sensor works with a CCD-array that utilizes various LED colours for optimum illumination (and selected by means of a powerful Digital Signal Processing Algorithm) and maximum contrast. The sensor is easily and accurately positioned with a light spot and the built in focusing function. The line position itself is optimised and made visible on the LED display. Line or edge characteristics will be stored after the calibration process and can then be referenced for the following web guiding process. A connector is included on the sensor housing for cable attachment, and the mounting bracket allows the sensor to be tilted during setup in order to obtain the most accurate control signal.

DLS 2 • Dimensions in mm or [in]



DLS 2 • Technical Specifications

Sensing Width	8 mm [0.31"]
Maximum Line Width	5 mm [0.19"]
Minimum Line Width	0.5 mm [0.02"]
Resolution	0.06 mm [0.002"]
Measuring Rate	2 ms
Output Signal	0...10 V
Power Supply	24 VDC (18...30 VDC)
Temperature Range	-10...+50 °C [14...122 °F]
Protection Class	IP 54

Scope of Supply:

- DLS 2 Sensor
- Mounting Bracket with Tilt Capability
- Installation and Operation Manual

Accessories (not in scope of supply):

- Sensor cable (BKS-SENSORCABLE.M8)

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