



The web edge sensor DSE-23 is the ideal solution for guiding opaque materials and can also be used with transparent materials after calibration.

The DSE-23 sensor measures non-contact the lateral offset of the guided material. The sensor is often used in pairs for centre guiding.

It is possible to operate the sensor with either a supply voltage of 12V or 24V. The output signal would automatically be switched over in that case.

In 12V supply mode the sensor provides an output signal from 0 to 10mA and can be connected to all available Fife web guide processors.

In 24V supply mode the sensor supplies an output signal between 4 and 20mA. This can be used to establish a wire-break-proof connection to external devices.

An optional digital production data acquisition to Fife D-MAXE controller extends the range of applications for the sensor inside the digital network environment. Additional sensor data can be provided to other hardware equipment if the Fife D-MAXE is linked appropriately to the network.



GENERAL SPECIFICATIONS

Field of view

63,5 mm

Light source

Modulated infrared light
Wavelength: 875 nm

Weight *

440 g

Operating temperature

5°C – 60°C

Protection class

IP54

Power supply

10 – 28V

Output signal

0 – 10 mA to $\leq 400\Omega$ at 12V
4 – 20 mA to $\leq 200\Omega$ at 24V
digital data exchange RS-485

Linearity *

2% maximum error (in the proportional band of 60 mm)

Plane change

2% maximum error (at 10% to 90% of gap width)

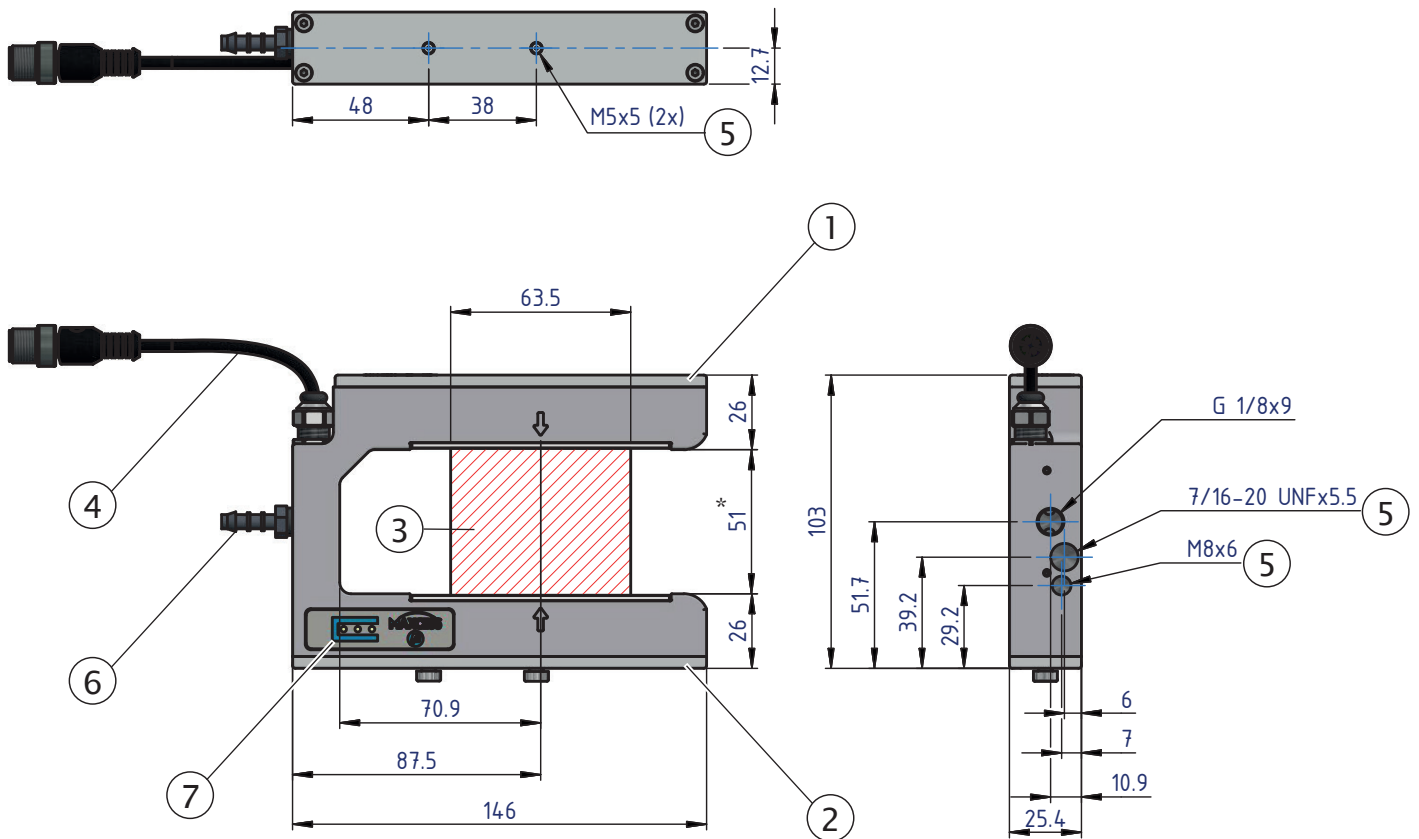
Temperature drift

2% maximum error (at 10°C to 50°C)

KEY FEATURES

- Compact size
- Insensitive to ambient light
- Insensitive to electrostatic discharge
- Temperature stabilized
- Low power consumption
- Can be used for new guiding systems as well as for an upgrade of existing systems
- Fast, easy and robust mounting due to multiple mounting brackets and sensor positioners
- Can be connected to all available Fife web guide processors
- Option:
Available with Air Sweep connection, to keep the sensor field of view clean in dusty environments

DIMENSIONS



Dimensions in mm

- 1 Infrared light receiver
- 2 Infrared light source
- 3 Field of view
- 4 Connection cable
- 5 Threading for sensor bracket
- 6 Air sweep connection (option)

- 7 LED display visible from both sides of the sensor

The display shows directly on the sensor information about the operating status like for instance the existence of the supply voltage, position of the edge of the web inside the field of view or error messages.

- * standard: sensor with gap width GW = 51 mm
- optional: sensor with gap width GW = 102 mm
 - Weight: 480 g
 - Linearity: 2% maximum error (in the proportional band of 52 mm)



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