

The Inductive Strip Edge Sensor GSI-EPC is used for contactless detection of position of magnetisable strips in process lines. Optionally, the simultaneous detection of both strip edges is possible if the sensor is designed as a center guiding sensor.

Due to its functional principle, the sensor is close to maintenance-free because it is insensitive to extraneous light and contamination by chemicals, vapours or solid deposits/contaminants.

A pair of coils, consisting of transmitter and receiver parts, are fitted into a frame construction made of extruded aluminium profiles.

The individual coils are shielded to avoid external interference. When an AC voltage is applied to the transmitter side, a magnetic field is formed between the transmitter and receiver coils. This induces an AC voltage in the receiver coil.

Depending on the position of the strip, there is magnetic coupling between the transmitter coil and the receiver coil. Coupled via an actuator with a servo motor, the pair of coils follow the strip edge. The position of the coils above the strip edge is recorded using a high-precision linear position transducer and processed in a digital signal amplifier, which controls the actuator.

The position of the strip edge is derived from the position of the pair of coils and from the degree of coverage of the coils by the strip.

GENERAL SPECIFICATION

Weight 60 – 90 kg	Supply Voltage 24 V
Gap 200 – 300 mm	Output Signal 4 to 20 mA
Operating temperature 0°– 50°C	Travel speed of the coils 30 mm/s
Protection classification IP65	Strip plane change in the sensor + / – 50 mm

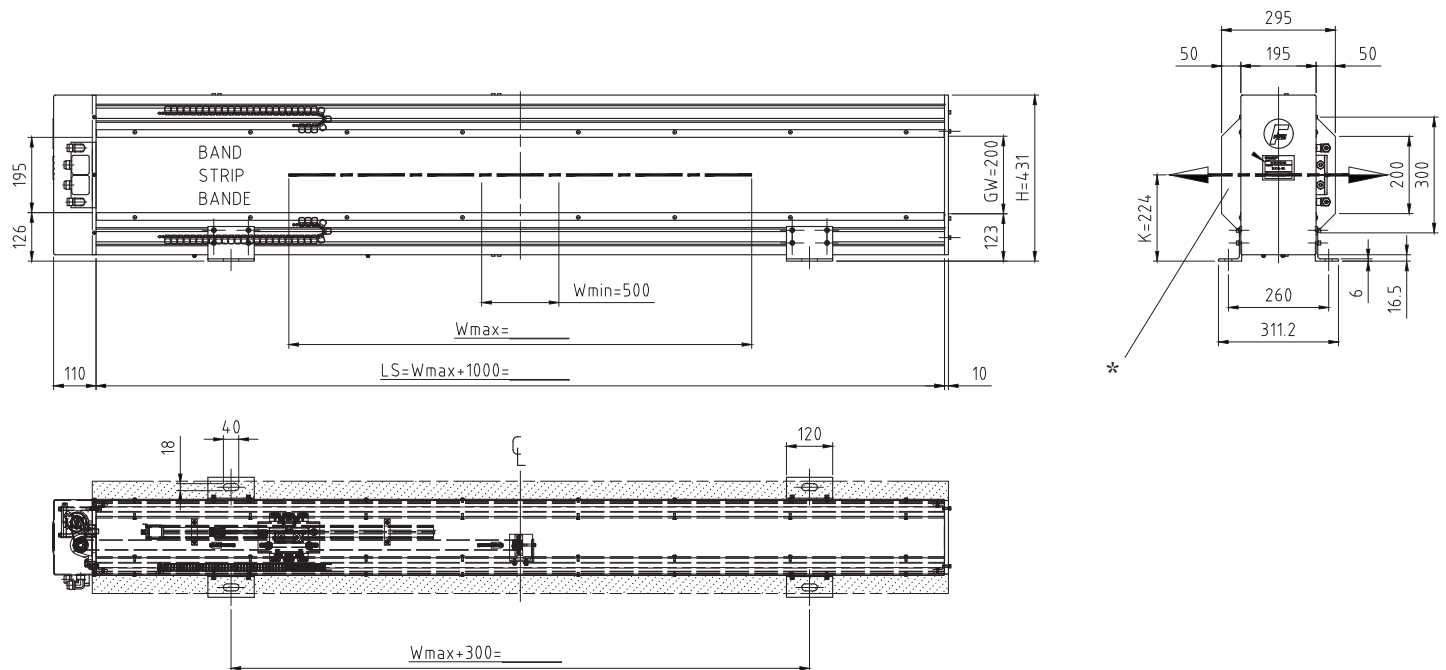
ADVANTAGES

- maintenance free
- high operational reliability
- insensitive to:
 - extraneous light
 - steam / gases
 - ambient light
 - ‘wavy’ strip edges
 - twisted Strip
 - differing vertical strip positions
 - temperature fluctuations

APPLICATIONS

- Detection of the strip edges for:
- rewind systems
 - unwind systems
 - steering units

DIMENSIONS



Dimensions shown in mm.

* To maintain the accuracy of the sensor, movable parts or fixed unsymmetric parts must not be situated in the specified area.



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