SIR.70 SIR.71

INFRARED SENSORS

- edge reading of non-transparent materials
- current output 4÷20 mA
- tension output 0÷5 V
- integrated keypad for a quick and easy visualization and calibration

application fields

- soundtrasparent materials
- materials with very thick weaves
- materials with density differences

SIR.70 and SIR.71 are infrared sensors for the edge reading of **soundtransparent webs**, materials with very thick weaves and non transparent materials.

SIR 70 has a detection range of 84mm (+/- 42mm), while the range of SIR 71 is 16mm (+/- 8mm); both sensors are able to work **with all Re webguiding systems** or with a normal PLC using the 4÷20 mA current output and the broad 12÷24 V power range.

A **light strip** consisting of 5 green leds allows the positioning of the sensor complying with the material and show constantly the **coverage level** of the web.

Functioning

Despite all other infrared sensors, SIR 70 and SIR 71 are made up of a transmitter, that emits infrared led,
a reflecting material on the opposite, that reflects the infrared rays, and a PSD receiver, which accordingly with the intensity of the detected signal,
determines the quantity of the sensitive surface of the sensor covered by the material.

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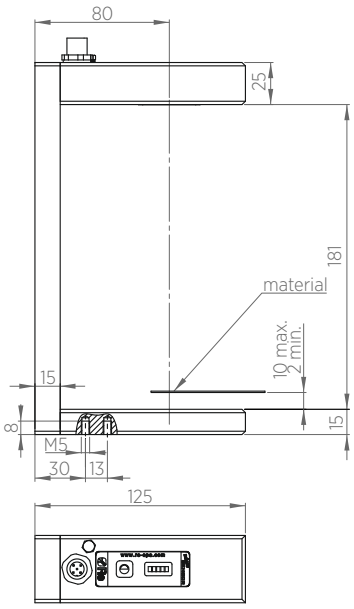
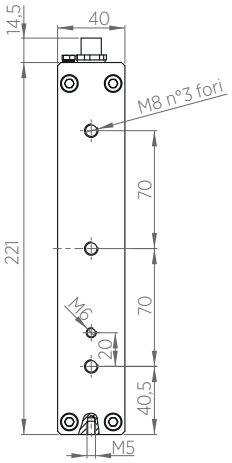
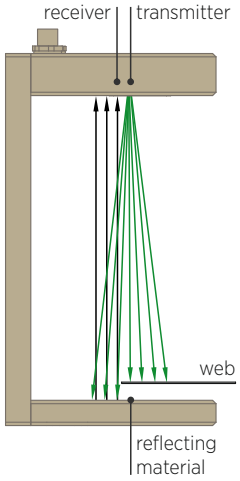
SIR.70

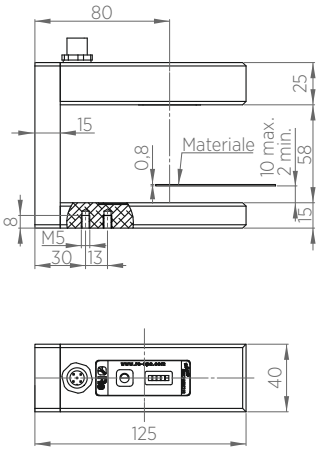


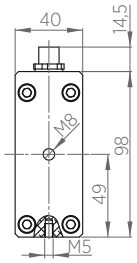


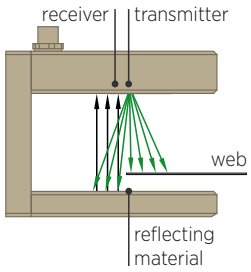


functioning

SIR.71







functioning

TECHNICAL CHARACTERISTICS

	SIR.70	**SIR.71**
Detection range	+/- 42 mm (84 mm)	+/- 8 mm (16 mm)
Fork width	181 mm	58 mm
Resolution	0,042 mm	0,01 mm
Infrared wavelenght	850 nm	850 nm
Analog outputs	0÷5 V (Rload>2kΩ)	0÷5 V (Rload>2kΩ)
	4÷20 mA (Rload<100kΩ)	4÷20 mA (Rload<100kΩ)
Response time	1 msec	1 msec
Power supply	12÷24 V nominale (9÷26 V max)	12÷24 V nominale (9÷26 V max)
Max current drawn	<70 mA	<70 mA
Max cable length	30 m	30 m
Working temperature	10÷80°C	10÷80°C

*Subject to technical change without notice

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