



# SIR.70 SIR.71

## INFRARED SENSORS



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

### application fields

- ✓ soundtransparent 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.

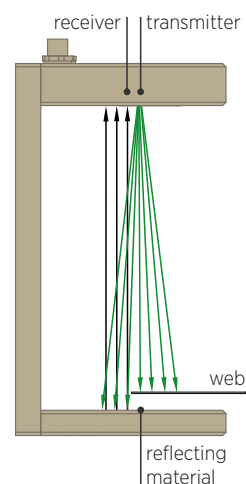
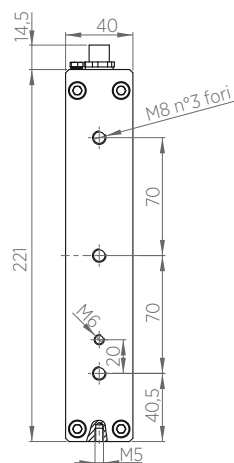
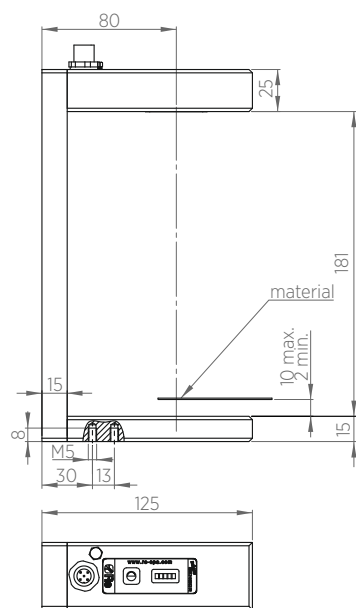
SIR 70 has a detection range of 84mm (+/- 42mm), while the range of SIR 71 is 16mm (+/- 8mm); both sensors are able to work with all Re webguiding systems or with a normal PLC using the  $4 \div 20$  mA current output and the broad  $12 \div 24$  V power range.

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

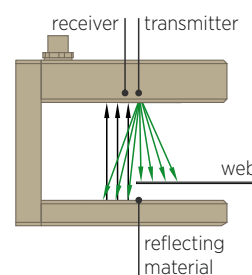
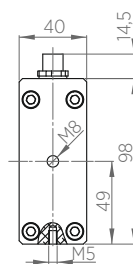
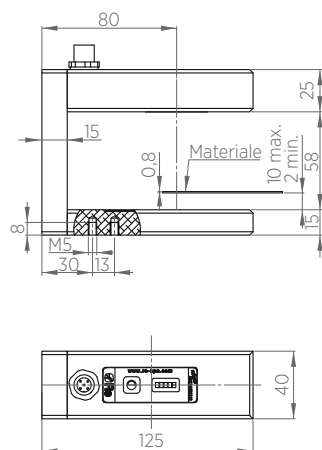
Despite all other infrared sensors, SIR 70 and SIR 71 are made up of a transmitter, that emits infrared led, a reflecting material on the opposite, that reflects the infrared rays, and a PSD receiver, which accordingly with the intensity of the detected signal, determines the quantity of the sensitive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

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) 4÷20 mA (Rload<100kΩ)	0÷5 V (Rload>2kΩ) 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



Re S.p.A.  
via Firenze 3  
20060 Bussero (MI) Italy

T +39 02 9524301  
F +39 02 95038986  
E info@re-spa.com

Assistenza tecnica  
Technical support  
T +39 02 952430.300  
E support@re-spa.com

Assistenza commerciale  
Sales support  
T +39 02 952430.200  
E sales@re-spa.com