SLOT SENSORS

MICROPROCESSOR-BASED SLOT SENSORS FOR LABELLING AND PACKAGING



- ***High 25 kHz switching frequency***
- ***IR or red/green light models***
- ***Detection of semi-transparent labels***
- ***Detection of register marks on transparents***
- ***4 wire antivalent NPN and PNP output***

SR21 SERIES

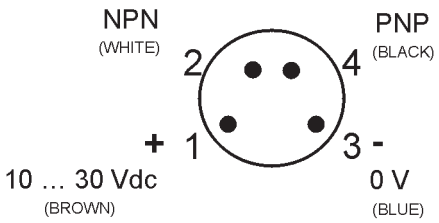
The slot sensors of the **SR21** series, with 2 mm slot width, are characterised by a high 12 bit (4096 steps) resolution, a low 20 μs response time and a switching frequency reaching 25 kHz.
The setting of the switching threshold is carried-out automatically by simply pressing a push-button, or dynamically during label (or other reference) movement.
The **SR21-IR** model with infrared emission is ideal for label or hole detection on continuous surfaces, while the **SR21-RG** model with double red or green emission suits colour print register mark detection on transparent films for automatic packaging.

DATASENSOR
value through detection

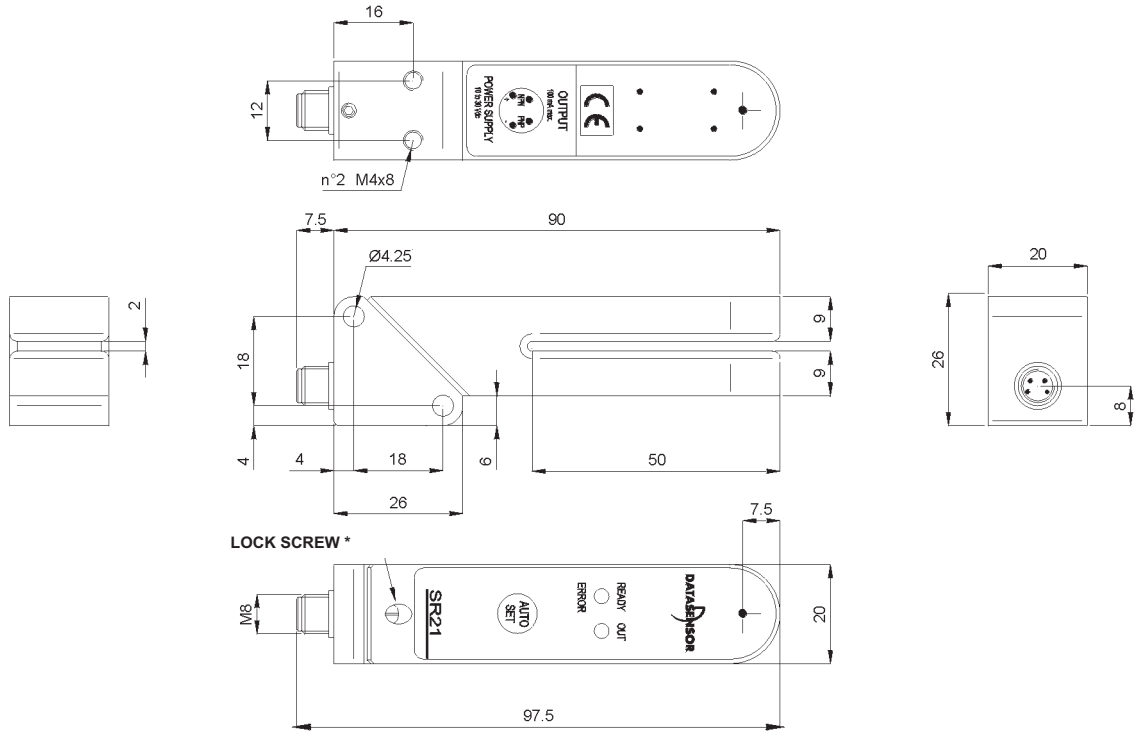
TECHNICAL DATA

Power supply: ..... 10 **...** 30 Vdc, reverse polarity protection
Consumption: ..... 55 mA max.
Light emission: ..... infrared LED 880 nm (IR vers.)
red 635 nm/green LED 535 nm (RG vers.)
Resolution: ..... 0.5 mm
Slot width: ..... 2 mm
Slot depth: ..... 50 mm
Detection point depth: ..... 7.5 mm
Setting: ..... AUTO SET push-button
Indicators: ..... yellow OUTPUT LED
green/red bicolour READY/ERROR LED
Output type: ..... NPN and PNP, Rpull-down/up 10 kΩ
Saturation voltage: ..... 2 V max.
Output current: ..... 100 mA max., short-circuit protection
Response time: ..... 20 µs max.
Switching frequency: ..... 25 kHz
Operating mode: ..... dark/light configurable
Connection: ..... M8 4-pole connector
Electrical protection: .....class 1
Mechanical protection: IP65
Housing material: ..... ZAMA
Lens material: ..... glass
Weight: ..... 120 g max.
Operating temperature: ..... -20 **...** +60°C
Storage temperature: ..... -20 **...** +70°C
Reference standard: ..... EN 60947-5-2
Certifications: ..... CE

CONNECTIONS



DIMENSIONS



** the M8 connector block can be rotated to 90°*

mm

MODEL SELECTION AND ORDER INFORMATION

MODEL	EMISSION	FREQUENCY	ORDER N°
SR21-IR	infrared	25 KHz	953151070
SR21-RG	red/green	25 KHz	953151080

SLOT SENSORS

Distributed by:

HEADQUARTERS

DATASENSOR SpA
via Lavino, 265 - 40050 Monte San Pietro, BO - Italy
Tel. +39 051/6765611 • Fax +39 051/6759324
www.datasensor.com • e-mail info@datasensor.com

Datasensor SpA endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use Datasensor SpA can guarantee only the data indicated in the instruction manual supplied with the products.

Printed in Italy in January 2006
Rev. 05