



- *Microprocessor-based Teach-in setting*
- *Infrared or automatic selection of red/green emission*
- *Double NPN and PNP output on orientable M8 connector*
- *Metal housing with glass lenses*

SR21 SERIES

The microprocessor-controlled slot sensors of the **SR21** series offer high precision and low response time inside a practical and sturdy metal housing, that always guarantees a perfect emitter-receiver alignment, even in presence of strong machine vibrations where installed.

All data necessary for a rapid and precise detection can be acquired and memorised by simply pressing twice the setting push-button, in presence and in absence of the object inside the slot; the dark or light operating mode is obtained inverting the sequence.

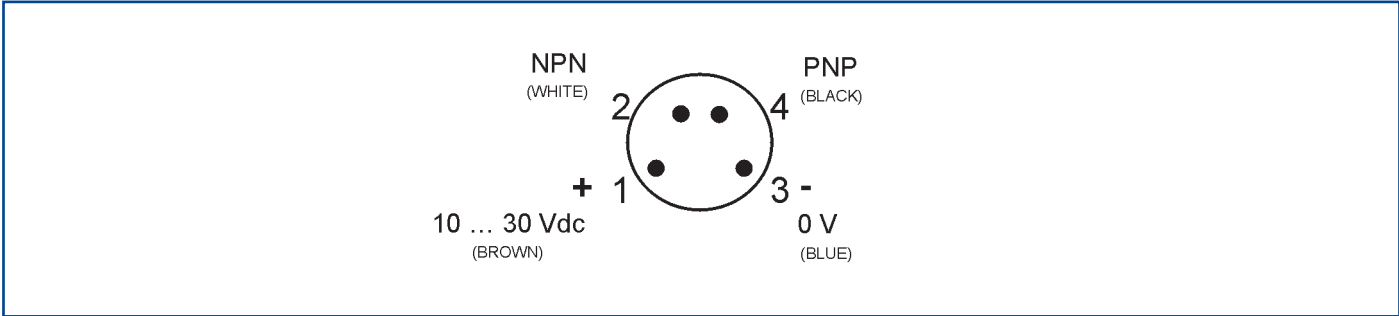
The **SR21-AR** model, with switching frequency that reaches 7.5 kHz and the **SR21-AS** model that operates upto 15 kHz are available for the detection of labels or holes on continuous ribbon supports.

The **SR21-AH** model with double green/red emission has been developed to detect coloured marks on transparent films for automatic packaging, while the **SR21-AV** model with low hysteresis can be used for the presence detection of transparent films or translucent labels on neutral transparent support.

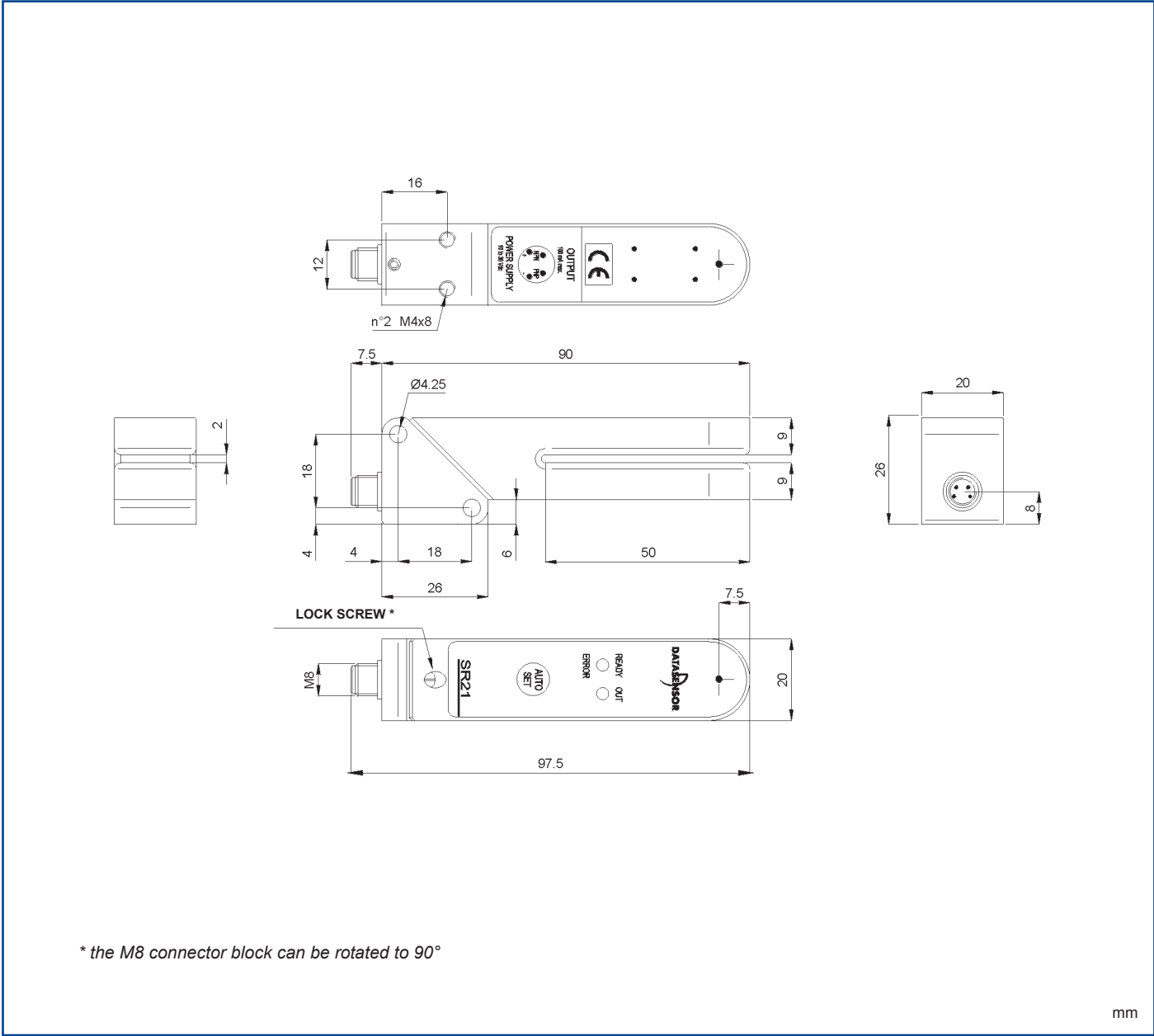
TECHNICAL DATA

Power supply:	10 ... 30 Vdc, reverse polarity protection
Consumption:	55 mA max.
Light emission:	infrared LED 880 nm (AR/AS/AV vers.) red 635 nm/green LED 535 nm (vers. AH)
Resolution:	0.5 mm (AH/AR vers.) 0.25 mm (AS/AV vers.)
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 k Ω
Saturation voltage:	2 V max. (PNP vers.) 1 V max. (NPN vers.)
Output current:	100 mA max., short-circuit protection
Response time:	66 μ s max. (AH/AR/AV vers.) 33 μ s max. (AS vers.)
Switching frequency:	7.5 kHz (AH/AR/AV vers.) 15 kHz (AS vers.)
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:	0 ... +55°C
Storage temperature:	-20 ... +70°C
Reference standard:	EN 60947-5-2
Certifications:	CE

CONNECTIONS



DIMENSIONS



MODELS

MODEL	EMISSION	FREQ.	DETECTABLE OBJECT ^(*)	CODE N°
SR21-AV	infrared	7.5 KHz	neutral transparent (presence/absence), translucid on neutral transparent background	953151040
SR21-AR	infrared	7.5 KHz	opaque on translucid or transparent background	963261000
SR21-AS	infrared	15 KHz	opaque on translucid or transparent background, holes on opaque or translucid background	953151060
SR21-AH	red/green	7.5 KHz	coloured translucid on transparent background different-coloured or neutral background	963261010

^(*) *Transparent: object that integrally transmits the incident light without evident alterations.
Translucid: object that partially transmits and diffuses the incident light.
Opaque: object that does not transmit the incident light.*

ACCESSORIES

Please refer to **Sensor Accessories**

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HEADQUARTERS

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