

## COMPACT 30 mm SLOT SENSORS



- *Infrared LED emission*
- *Sensitivity trimmer adjustment*
- *Elevated switching frequency*
- *Metal housing with wide slot*

## SR31 SERIES

The **SR31** series is composed of slot sensors with infrared LED emission, distinguished by an elevated 10 kHz switching frequency and by a sturdy and compact metal housing.

The detection sensitivity is adjusted by means of a trimmer. The dark/light operating mode is configured according to the connection.

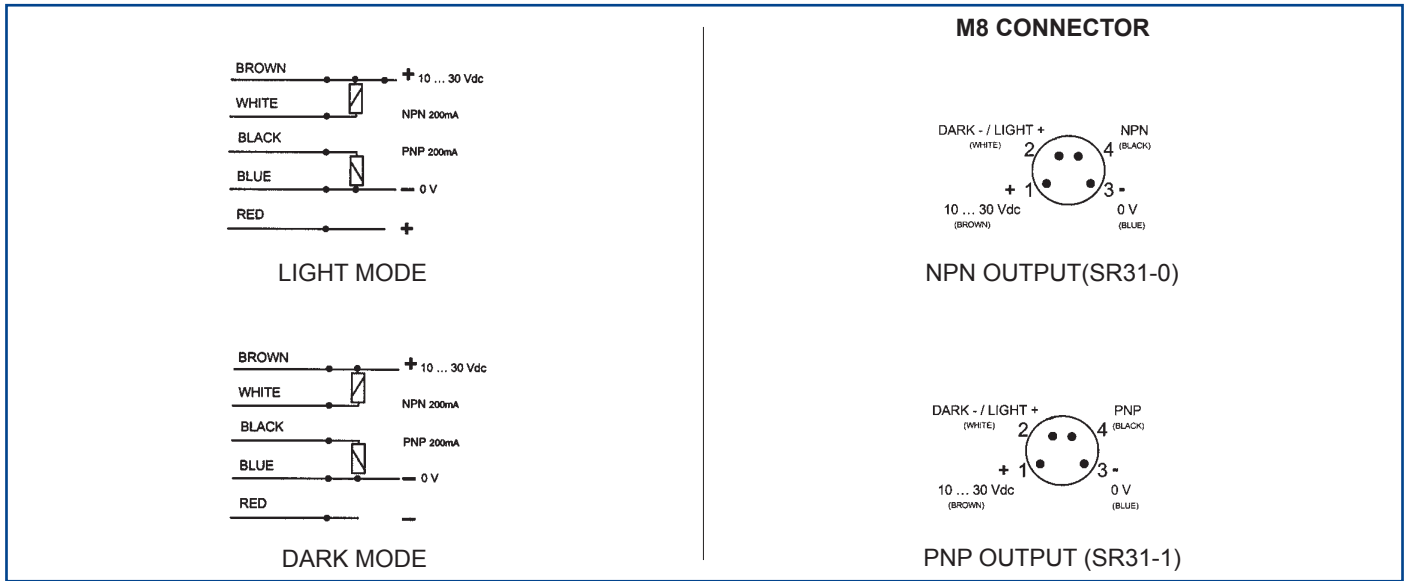
The series includes M8 connector versions with NPN output, or PNP output; cable versions present both NPN/PNP outputs.

The **SR31** sensors have a 30 mm wide and 42 mm deep slot. These sensors are suitable for detecting opaque labels on a transparent support, to control material presence and continuity, to detect synchronism pulses on toothed or holed wheels, or as on-off edge guide.

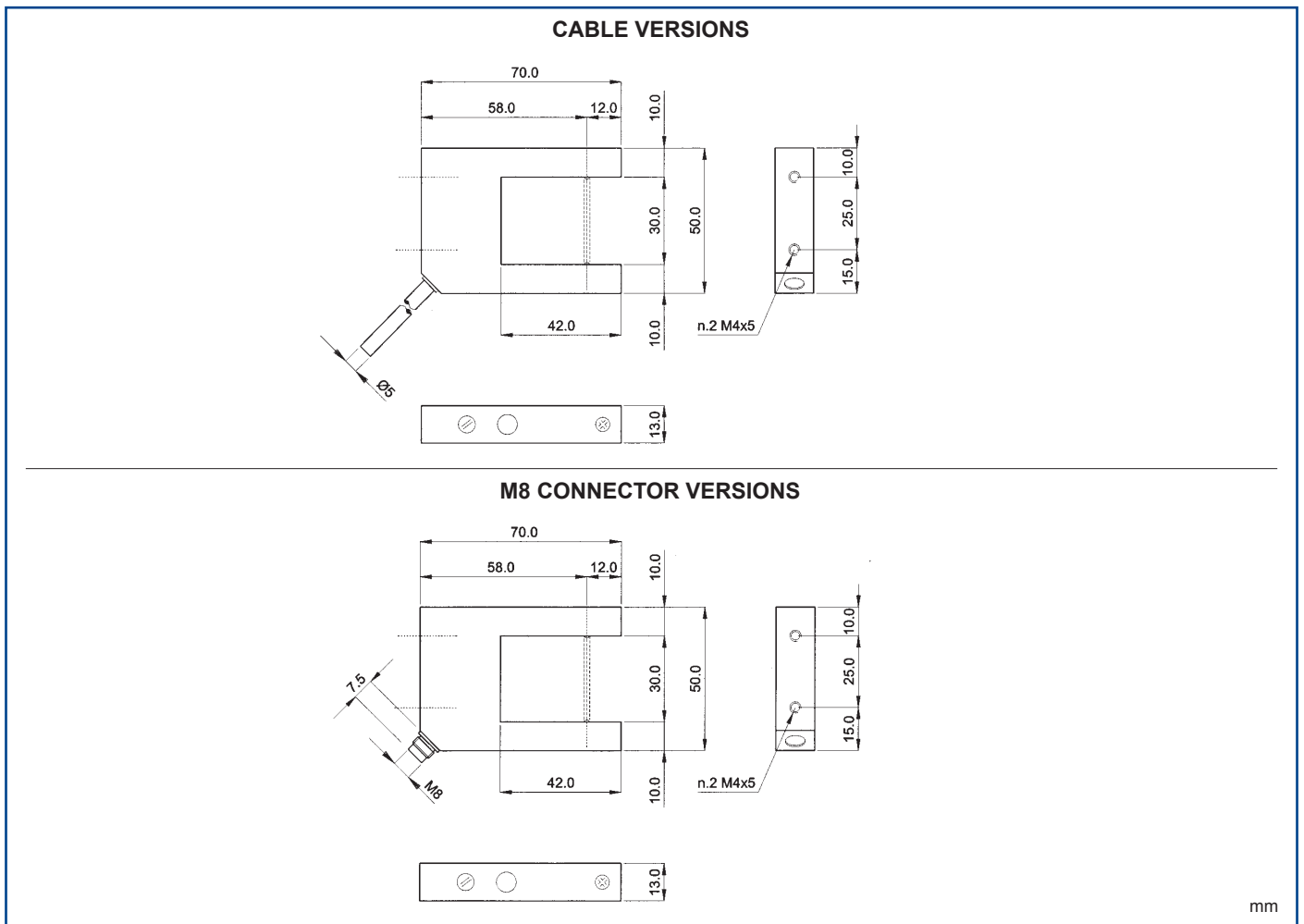
## TECHNICAL DATA

<b>Power supply:</b>	10 ... 30 Vdc, reverse polarity protection
<b>Consumption:</b>	50 mA max.
<b>Light emission:</b>	infrared LED 880 nm
<b>Resolution:</b>	2 mm
<b>Slot width:</b>	30 mm
<b>Slot depth:</b>	42 mm
<b>Detection point depth:</b>	12 mm
<b>Setting:</b>	multi-turn sensitivity trimmer
<b>Indicators:</b>	red OUTPUT LED
<b>Output type:</b>	NPN or PNP (connector vers.) NPN and PNP (cable vers.) Rpull-down/up 10 k $\Omega$
<b>Saturation voltage:</b>	0.8 V max. (NPN vers.) 2 V max. (PNP vers.)
<b>Output current:</b>	200 mA max., short-circuit protection
<b>Response time:</b>	50 $\mu$ s max.
<b>Switching frequency:</b>	10 kHz max.
<b>Operating mode:</b>	dark/light configurable
<b>Connection:</b>	4-pole M8 connector 2 m $\varnothing$ 5 mm cable
<b>Electrical protection:</b>	class 1
<b>Mechanical protection:</b>	IP60
<b>Housing material:</b>	ZAMA
<b>Lens material:</b>	glass
<b>Weight:</b>	100 g max.
<b>Operating temperature:</b>	-10 ... +60°C
<b>Storage temperature:</b>	-20 ... +70°C
<b>Reference standard:</b>	EN 60947-5-2
<b>Certifications:</b>	<b>CE</b>

## CONNECTIONS



## DIMENSIONS





## MODELS

MODEL	CONNECTION	OUTPUT	CODE N°
SR31	cable	NPN/PNP	S970830000
SR31-0	M8 connector	NPN	S970830101
SR31-1	M8 connector	PNP	S970830201

## ACCESSORIES

Please refer to *Sensor Accessories*

*Distributed by:*

### HEADQUARTERS

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