

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.

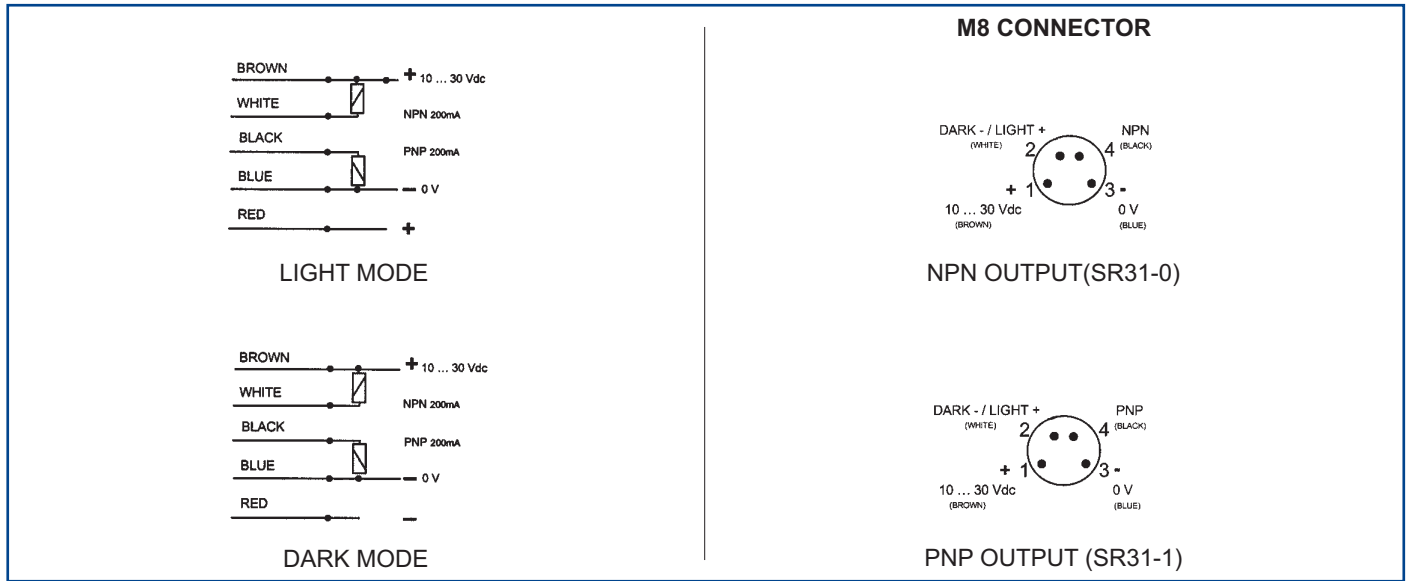


TECHNICAL DATA

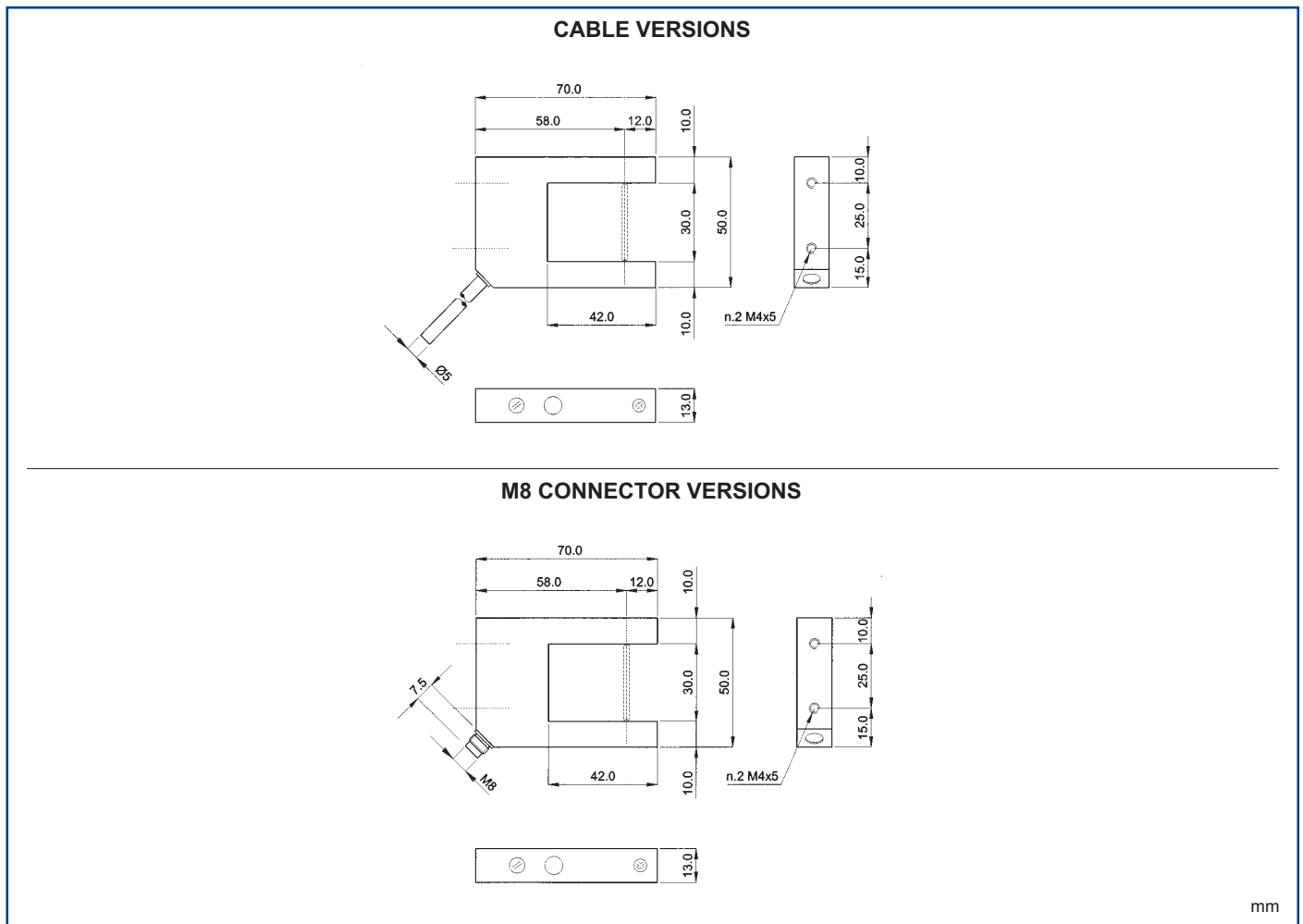
Power supply:	10 ... 30 Vdc, reverse polarity protection
Consumption:	50 mA max.
Light emission:	infrared LED 880 nm
Resolution:	2 mm
Slot width:	30 mm
Slot depth:	42 mm
Detection point depth:	12 mm
Setting:	multi-turn sensitivity trimmer
Indicators:	red OUTPUT LED
Output type:	NPN or PNP (connector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



CONNECTIONS



DIMENSIONS





MODEL SELECTION AND ORDER INFORMATION

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

Distributed by:

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