

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.

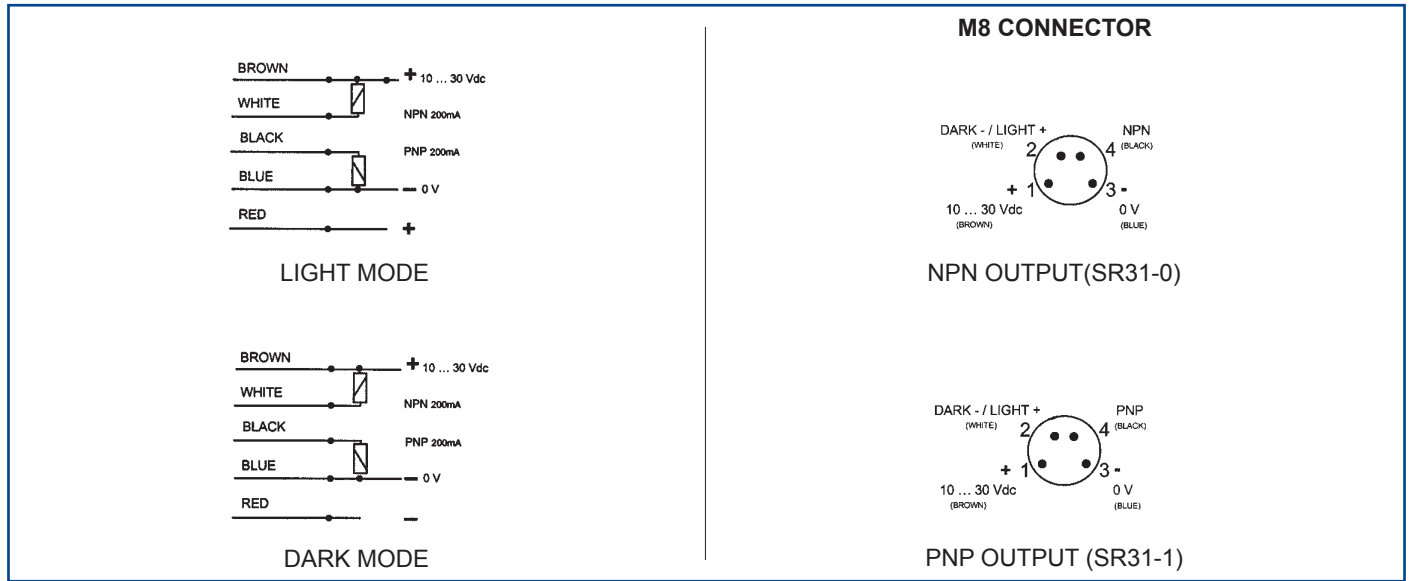
The series includes M8 connector versions with NPN output, or PNP output; cable versions present both NPN/PNP outputs.

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.

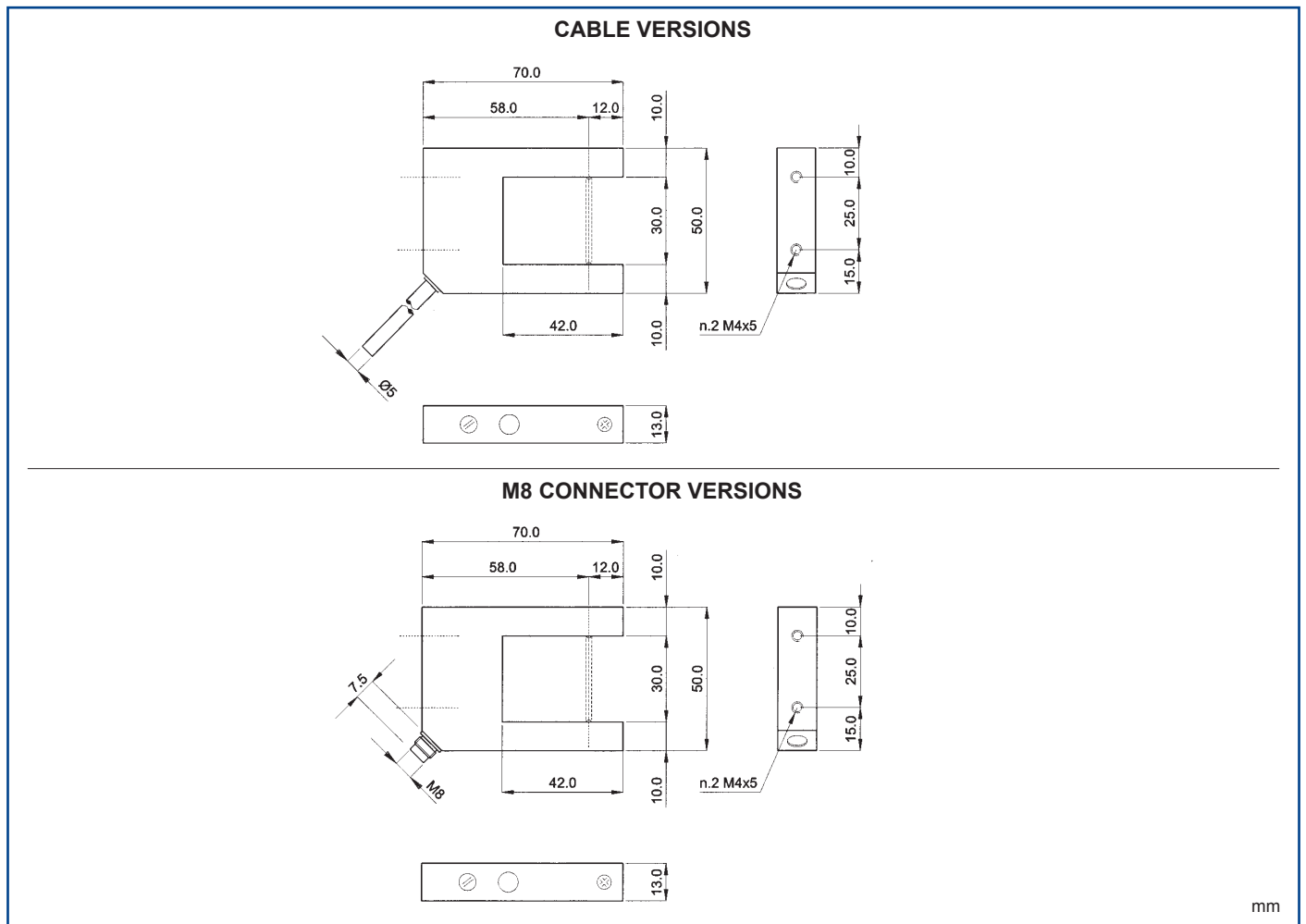
TECHNICAL DATA

| | |
|-------------------------------|--|
| 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: | CE |

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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SLOT SENSORS