



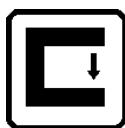
## SR31 SERIES

The **SR31** series is composed of fork sensors with infrared LED emission, distinguished by an elevated 10kHz 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 fork. 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.



## HIGHLIGHTS

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

## APPLICATIONS

### Labeling machines



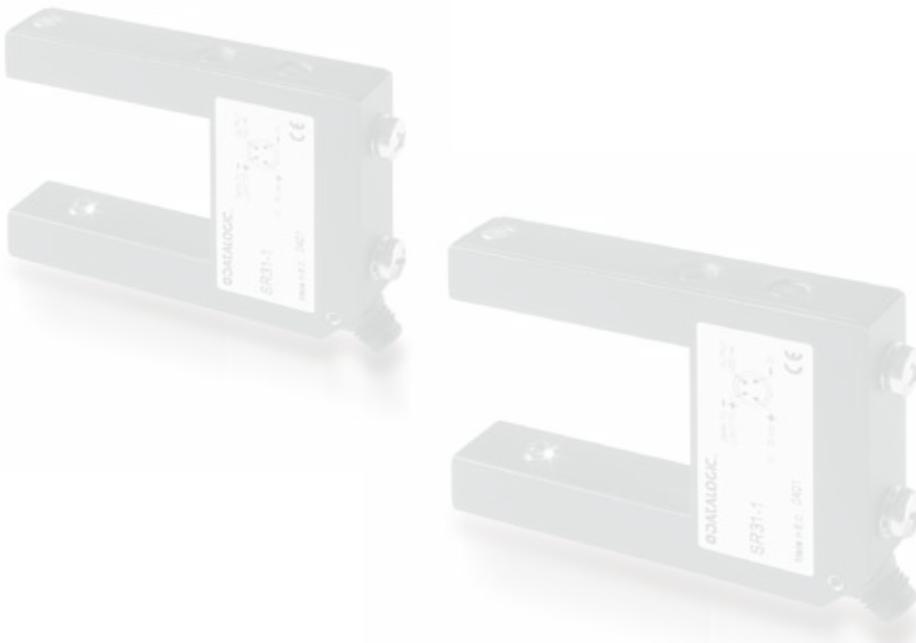
Packaging lines

# Fork Sensors

 **DATALOGIC**

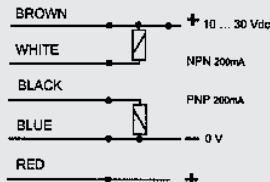
## TECHNICAL DATA

Power supply	10...30 Vdc, reverse polarity protection
Consumption	50 mA max.
Light emission	infrared LED 880 nm
Resolution	2 mm
Fork width	30 mm
Fork 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 kW
Saturation voltage	0.8 V max. (NPN vers.) 2 V max. (PNP vers.)
Output current	200 mA max., 50 $\mu$ s max.
Response time	10 kHz max.
Switching frequency	10 kHz max.
Operating mode	dark/light configurable
Connection	4-pole M8 connector 2 m Ø 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

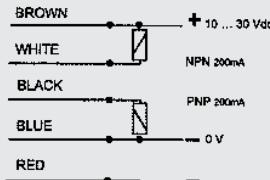


# Fork Sensors

## CONNECTIONS

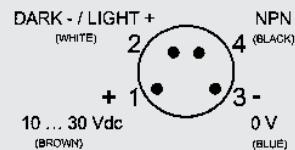


LIGHT MODE

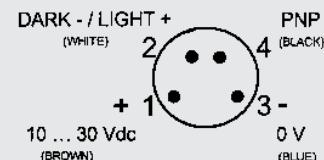


DARK MODE

### M8 CONNECTOR



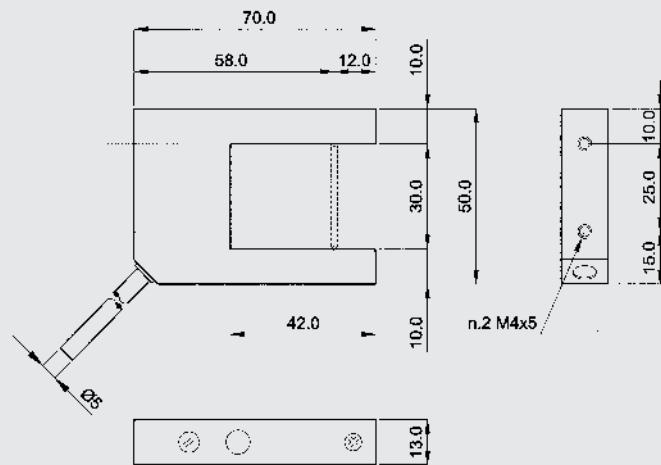
NPN OUTPUT(SR31-0)



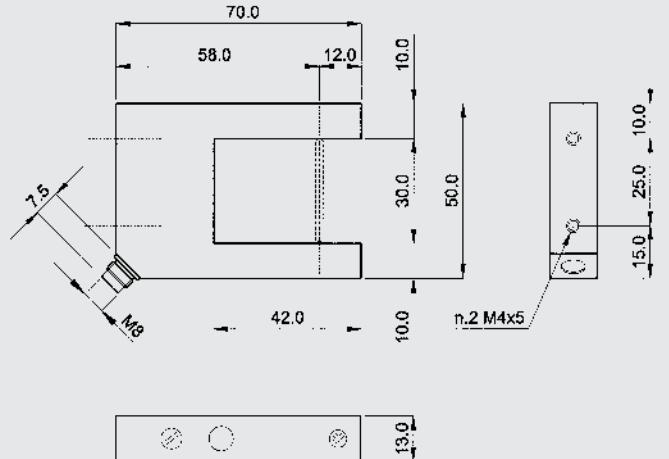
PNP OUTPUT (SR31-1)

## DIMENSIONS

### CABLE VERSIONS



### M8 CONNECTOR VERSIONS



mm

## 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

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The company 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, the company can guarantee only the data indicated in the instruction manual supplied with the products.

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