



SR31 SERIES INSTRUCTION MANUAL

MODELS SELECTION TABLE

TYPE	CONNECTION	OUTPUT
SR31	cable	NPN and PNP
SR31-0	M8 connector	NPN
SR31-1	M8 connector	PNP

TECHNICAL DATA

Power supply:	10 ... 30 Vdc (reverse polarity protection)
Ripple:	2 Vpp max.
Current consumption:	50 mA max.
Output:	NPN or PNP (connectore vers.) NPN and PNP (cable vers.)
Load current:	200 mA max.
Saturation voltage:	0.8 V max. (NPN output) 2 V max. (PNP output)
Response time:	50 μ s max.
Switching frequency:	10 KHz max. (dark/light ratio1:1)
Indicators:	RED output LED
Setting:	multi-turn sensitivity trimmer
Operating temperature:	-10 ... +60 °C
Storage temperature:	-20 ... +70 °C
Humidity:	35 ... 85% RH (non condensing)
Emission type:	Infrared LED 950nm

Ambient light rejection:	EN 60947-5-2
Vibration:	amplitude 0.5 mm, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)
Shock resistance:	11 ms (30 G) 6 shock for every axis (EN60068-2-27)
LIGHT/DARK selection:	Standard (by red wire)
Slot width:	30 mm
Material width:	25 mm max.
Detection width:	2 mm min.
Housing:	ZAMA
Lenses:	Glass
Protection class:	IP60
Connections:	2m cable \varnothing 5 mm; 4-pole M8 connector
Dimensions:	70x50x13.5 mm
Weight:	100 g.

826110006 Rev.G



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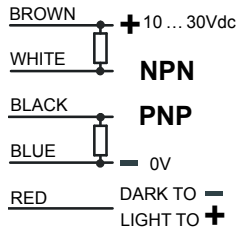
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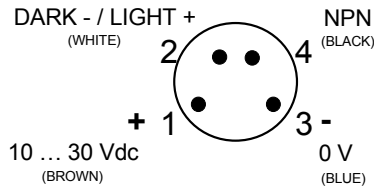
826110006 Rev.G

SR31 WIRING CONNECTIONS

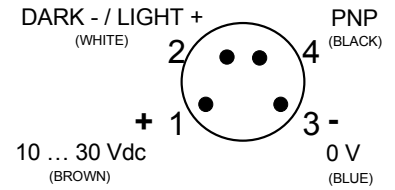
SR31 CABLE VERSION



SR31-0 M8 CONNECTOR



SR31-1 M8 CONNECTOR



CE Compliance

CE marking states the compliance of the product with essential requirements listed in the applicable European directive. Since the directives and applicable standards are subject to continuous updates, and since Datalogic promptly adopts these updates, therefore the EU declaration of conformity is a living document. The EU declaration of conformity is available for competent authorities and customers through Datalogic commercial reference contacts. Since April 20th, 2016 the main European directives applicable to Datalogic products require inclusion of an adequate analysis and assessment of the risk(s). This evaluation was carried out in relation to the applicable points of the standards listed in the Declaration of Conformity. Datalogic products are mainly designed for integration purposes into more complex systems. For this reason it is under the responsibility of the system integrator to do a new risk assessment regarding the final installation.

Warning

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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The warranty period for this product is 36 months. See General Terms and Conditions of Sales for further details.

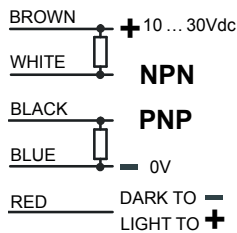


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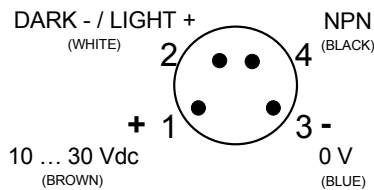
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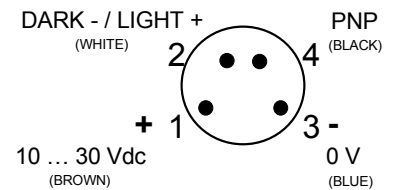
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