DATALOGIC

SRF SERIES
INSTRUCTION MANUAL

Slot sensor

CONTROLS

YELLOW LED ON – **object presence**
YELLOW LED OFF – **object absent**

SENSITIVITY TRIMMER
This trimmer can be used to adjust sensitivity of the sensor.

N.O. / N.C. TRIMMER – OUTPUT
This trimmer can be used to adjust the output status.

WARNING: *The trimmer rotation is limited to 270° by a mechanical stop.*
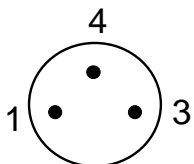*Do not apply excessive torque when adjusting.*
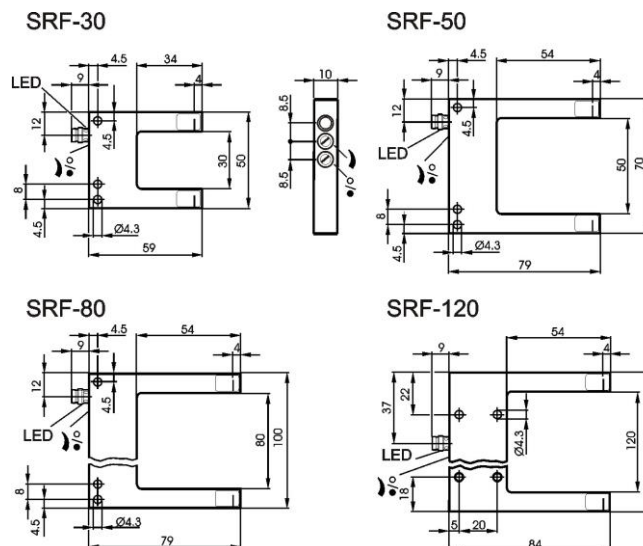
CONNECTIONS

BROWN **1** + 10 … 30 Vdc

BLACK **4** OUTPUT

BLUE **3** 0 V

M8 connector

DIMENSIONS

SRF-30

SRF-50

SRF-80

SRF-120

TECHNICAL DATA

	SRF-30	SRF-50	SRF-80	SRF-120
Power supply:	10 … 30 VDC; reverse polarity protected			
Ripple:	2 Vpp max.			
Current consumption (output current excluded):	35mA max.			
Outputs:	PNP or NPN / N.O. / N.C. selectable			
Output current:	200 mA max. with short-circuit protection			
Output saturation voltage:	3 V max. PNP / 2.5 V max. NPN			
Response time:	333 μs			
Switching frequency:	1500 Hz			
Hysteresis:	≤·0.1 mm	≤ 0.15 mm	≤ 0.2 mm	
Resolution:	0.3 mm	0.5 mm		0.8 mm
Repeatability:	0.02 mm	0.04 mm	0.06 mm	0.08 mm
Humidity:	35 … 85% rH non condensing			
Indicators:	YELLOW LED			
Setting:	sensitivity trimmer and N.O./N.C. trimmer			
Operating temperature:	-10 … 60°C			
Storage temperature:	-20 … 70°C			
Dielectric strength:	500 Vac 1 min., between electronics and housing			
Insulating resistance:	>20 MΩ 500 Vdc, between electronics and housing			
Emission type:	LED RED 640 nm			
Ambient light rejection:	5 kLux			
Vibration:	0.5 mm amplitude, 10 … 55 Hz frequency, for every axis (EN60068-2-6)			
Shock resistance:	11 ms (30 G) 6 shock for every axis (EN60068-2-27)			
Slot width:	30 mm	50 mm	80 mm	120 mm
Housing:	GDZn			
Lenses:	Glass			
Protection class:	IP67			
Connections:	M8 3 pole connector			
Weight:	36 g.	54 g.	77 g.	118 g.

SETTING

Sensor setting

1) Place the object to read in the sensor slot using the reference marks on the tip for alignment.

2) Turn the sensitivity with the trimmer in order to obtain the correct reading of the object.

⚠ *These slot sensors are not suitable for safety applications*

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The sensors are NOT safety devices, and so MUST NOT be used in the safety control of the machines where installed.

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