

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.

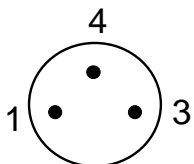
CONNECTIONS

BROWN 1 + 10 ... 30 Vdc

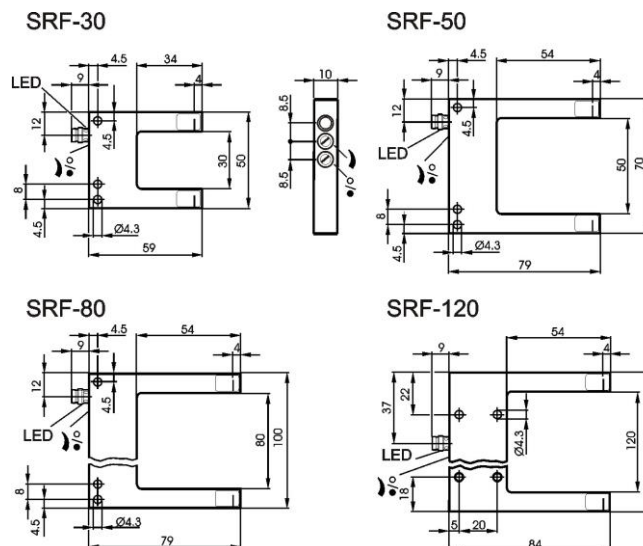
BLACK 4 OUTPUT

BLUE 3 - 0 V

M8 connector



DIMENSIONS



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.

WARRANTY

Datalogic Automation warrants its products to be free from defects. Datalogic Automation will repair or replace, free of charge, any product found to be defective during the warranty period of 36 months from the manufacturing date. This warranty does not cover damage or liability deriving from the improper application of Datalogic Automation products.

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