

SRF-L laser Slot sensor laser

INSTRUCTION MANUAL



CONTROLS

YELLOW LED ON - object presence YELLOW LED OFF - object absent

SENSITIVITY TRIMMER

This trimmer can be used to adjust sensitivity of the

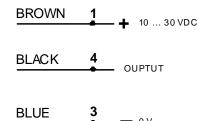
N.O. / N.C. TRIMMER - OUTPUT

This trimmer can be used to adjust the output status.

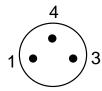
WARNING: The trimmer rotation is limited to 270° by a mechanical stop.

Do not apply excessive torque when adjusting.

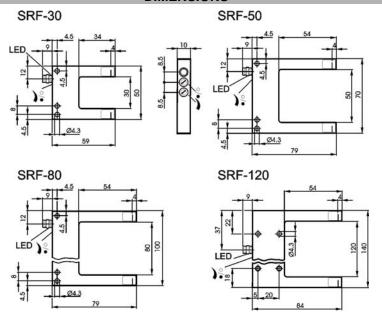
CONNECTIONS



M8 connector



DIMENSIONS



TECHNICAL DATA

	SRF-L-30	SRF-L-50	SRF-L-80	SRF-L-120	
Power supply:	10 30 Vdc; reverse polarity protected				
Ripple:	2 Vpp max.				
Current consumption	20mA max.				
(output current excluded):					
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:	100 μs				
Switching frequency:		5000 Hz			
Hysteresis:	20 μm	25 μm	30 μm	50 μm	
Resolution:	0.05 mm	0.08 mm	0.1 mm	0.15 mm	
Repeatability:		10 μm 15 μm			
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 M Ω 500 Vdc, between electronics and housing				
Emission type:	red laser (650 nm) Class 1 EN 60825-1				
Ambient light rejection:	5 kLux				
Vibration:	0.5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6)				
Shock resistance:	11 ms	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:	66 g.	110 g.	135 g.	210 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

DECLARATION OF CONFORMITY

We DATALOGIC AUTOMATION declare under our sole responsibility that these products are conform to the 2004/108/CE and successive amendments

DATALOGIC AUTOMATION warrants its products to be free from

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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