DATALOGIC™

SRF-L *laser*

Slot sensor laser

Class 1

INSTRUCTION MANUAL

CLASS 2 EN 60825-1
LASER PRODUCT

CONTROLS

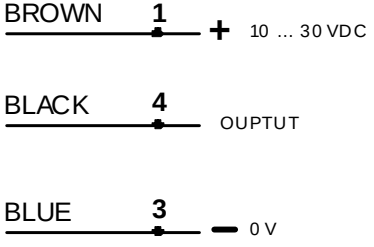
YELLOW LED ON – object presence
YELLOW LED OFF – object absent

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

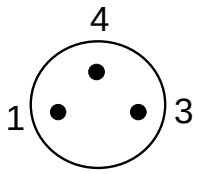
N.O. / N.C. TRIMMER – OUTPUT
This trimmer can be used to adjust the output status.

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

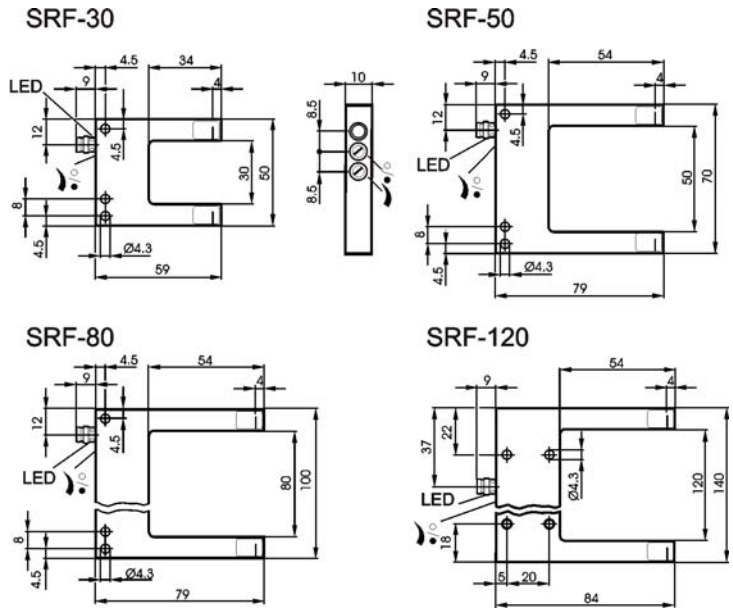
CONNECTIONS



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 (output current excluded):	20mA 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:	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 MΩ 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 (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.

CE

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.

DATALOGIC AUTOMATION
Via Lavino 265 - 40050 Monte S.Pietro - Bologna – Italy
Tel: +39 051 6765611 - Fax: +39 051 6759324
www.automation.datalogic.com e-mail:info.automation.it@datalogic.com

DATALOGIC AUTOMATION cares for the environment: 100% recycled paper.
DATALOGIC AUTOMATION reserves the right to make modifications and improvements without prior notification.

826003464 Rev.E