SRF

ODATALOGIC





ULTIMATE PRECISION USING LED OR LASER EMISSIONS FOR HIGH RESOLUTION

- Visible red emission models
- High resolution LASER models
- Sensitivity adjustment trimmer and dark/light selectors
- Industrial metal housing with glass lenses

APPLICATIONS

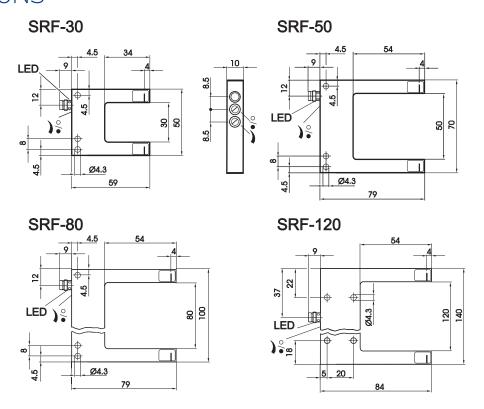
- Packaging and labeling machinery
- Automotive
- Packaging lines

		30 mm (SRF-30)		
Slot width		50 mm (SRF-50)		
Stot wiath		80 mm (SRF-80)		
		120 mm (SRF-120)		
Slot depth	34 mm (SRF-30)			
Stot deptil		54 mm (SRF-50/80/120)		
Switching frequency	1,5 kHz			
Switching frequency		5 kHz (class 2 LASER)		
Light emission	red LED			
Light emission		red LASER (class 2)		
Setting		trimmer		
	Vdc	1030 V		
Power supply	Vac			
	Vac/dc			
	PNP	•		
	NPN	•		
Output	NPN/PNP			
	relay			
	other			
	cable			
Connection	connector	•		
	pig-tail			
		10x50x59 (SRF-30)		
Approximate dimensions (mm)		10x70x79 (SRF-50)		
••		10x100x79 (SRF-80)		
		10x140x84 (SRF-120)		
Housing material		Aluminium		
Mechanical protection	IP67			

TECHNICAL DATA

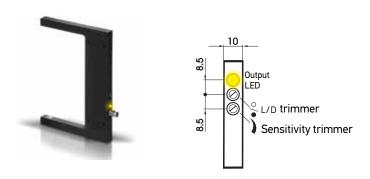
Power supply	10 30 Vdc (reverse polarity protection)				
Ripple	2 Vpp max.				
Consumption (output current excluded)	35 mA max. 20 mA max. (Laser mod.)				
Light emission	red LED 640 nm red Laser 650 nm				
Setting	sensitivity trimmer and N.O./N.C. trimmer				
Operating mode	LIGHT/DARK configurable				
Indicators	yellow LED				
Output	PNP or NPN; NO; NC				
Output current	200 mA max.				
Saturation voltage	3 V max. PNP, 2,5 V max. NPN				
Response time	333 µs 100 µs (Laser mod.)				
Switching frequency	1,5 kHz 5 kHz (Laser mod.)				
Connection	M8 3-pole connector				
Dielectric strength	500 Vac, 1 min between electronics and housing				
Insulating resistance	${>}20~\text{M}\Omega,500~\text{Vdc}$ between electronics and housing				
Electrical protection	class 1				
Mechanical protection	IP67				
Ambient light rejection	5 kLux				
Vibrations	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, 50, 80, 120 mm				
Resolution	0,3 mm (mod. SRF30), 0,5 mm (mod. SRF50/80), 0,8 mm (mod. SRF120) 0,05 mm (Laser mod. SRF30), 0,08 mm (Laser mod. SRF50), 0,1 mm (Laser mod. SRF80), 0,15 mm (Laser mod. SRF120)				
Housing material	GDZn				
Lens material	glass				
Operating temperature	-10 60 °C				
Storage temperature	-20 70 °C				
Weight	36 g (mod. SRF30), 54 g (mod. SRF50), 77 g (mod. SRF80), 118 g (mod. SRF120) 66 g (Laser mod. SRF30), 110 g (Laser mod. SRF50), 135 g (Laser mod. SRF80), 210 g (Laser mod . SRF120)				

DIMENSIONS



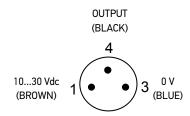
INDICATORS AND SETTINGS

ALL MODELS



CONNECTIONS

M8 CONNECTOR



MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	EMISSION		OUTPUT	MODEL	ORDER No.
Fork sensor (30 mm)	D 11 FD	M8 Connector	PNP	SRF-30-5-P	95B020050
	Red LED		NPN	SRF-30-5-N	95B020090
	LASER		PNP	SRF-L-30-5-P	95B020130
Fork sensor (50 mm)	5 1155	M8 Connector	PNP	SRF-50-5-P	95B020060
	Red LED		NPN	SRF-50-5-N	95B020100
	LASER		PNP	SRF-L-50-5-P	95B020140
Fork sensor (80 mm)	5 1155	M8 Connector	PNP	SRF-80-5-P	95B020070
	Red LED		NPN	SRF-80-5-N	95B020110
	LASER		PNP	SRF-L-80-5-P	95B020150
Fork sensor (120 mm)	D 1150	M8 Connector	PNP	SRF-120-5-P	95B020080
	Red LED		NPN	SRF-120-5-N	95B020120
	LASER		PNP	SRF-L-120-5-P	95B020160

CABLES

	DESCRIPTION		MODEL	ORDER No.
Axial M8 connector	3-pole, Grey, P.V.C.	3 m	CS -B1-01-G-03	95A251490
		5 m	CS -B1-01-G-05	95A251510
Radial M8 connector		3 m	CS -B2-01-G-03	95A251500
		5 m	CS -B2-01-G-05	95A251520