# **SR21**

#### **COLONIA STATE**







# 2MM HIGH-RESOLUTION FORK SENSORS FOR LABELING AND PACKAGING

- 25 kHz high switching frequency
- IR or red/green light models
- Detection of labels (SR21-IR) or print register mark on transparent films (SR21-RG)
- 4 wire NPN and PNP output

#### **APPLICATIONS**

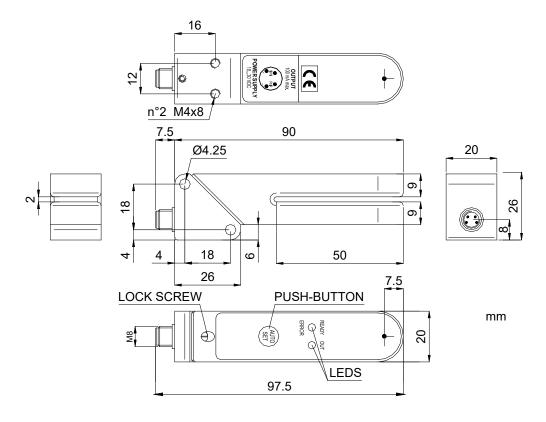
- · Packaging and labeling machinery
- Print and apply systems

SR21				
Slot width	2 mm			
Slot depth	50 mm			
Switching frequency		25 kHz		
		IR LED		
Light emission	red/green LED			
Setting		push button		
Power supply	Vdc	1030 V		
	Vac			
	Vac/dc			
	PNP	•		
	NPN	•		
Output	NPN/PNP			
	relay			
	other			
	cable			
Connection	connector	•		
	pig-tail			
Approximate dimensions (mm)		20x90x26		
Housing material		Zama		
Mechanical protection		IP65		

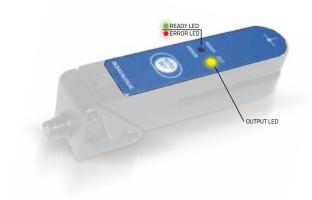
# TECHNICAL DATA

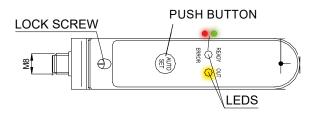
Power supply	10 30 Vdc (limit values)			
Ripple	2 Vpp max.			
Consumption (output current excluded)	55 mA max.			
Light emission	red LED 633 nm/green LED 570 nm			
	IR LED 880 nm			
Setting	AUTO-SET push-button			
Operating mode	LIGHT/DARK configurable			
Indicators	yellow OUTPUT LED			
	green/red READY/ERROR LED			
Output	PNP and NPN			
Output current	100 mA max.			
Saturation voltage	2 V max.			
Response time	20 μs max.			
Switching frequency	25 kHz max.			
Connection	M8 4-pole connector			
Dielectric strength	500 Vac, 1 min between electronics and housing			
Insulating resistance	>20 MΩ, 500 Vdc between electronics and housing			
Electrical protection	class 1			
Mechanical protection	IP65			
Ambient light rejection	according to EN 60947-5-2			
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	2 mm			
Resolution	0,5 mm			
Housing material	ZAMA			
Lens material	glass			
Operating temperature	-20 60 °C			
Storage temperature	-20 70 °C			
Weight	115 g			

# **DIMENSIONS**



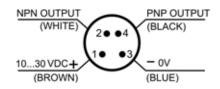
### INDICATORS AND SETTINGS





# CONNECTIONS

#### M8 CONNECTOR



### MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	EMISSION	CONNECTION		MODEL	ORDER No.
Fork concer	Infrared LED	M8 Connector	PNP/NPN	SR21-IR	953151070
Fork sensor	Red/Green LED	Mo Confidential	FINF/INFIN	SR21-RG	953151080

### **CABLES**

	DESCRIPTION		MODEL	ORDER No.
Axial M8 Connector	4-pole, grey, P.V.C.	3 m	CS-B1-02-G-03	95A251420
		5 m	CS-B1-02-G-05	95A251430
		7 m	CS-B1-02-G-07	95A251440
		10 m	CS-B1-02-G-10	95A251480
	4-pole, P.U.R.	2 m	CS-B1-02-R-02	95A251620
		5 m	CS-B1-02-R-05	95A251640
Radial M8 Connector	4-pole, grey, P.V.C.	3 m	CS-B2-02-G-03	95A251450
		5 m	CS-B2-02-G-05	95A251460
		7 m	CS-B2-02-G-07	95A251470
		10 m	CS-B2-02-G-10	95A251530
	4-pole, P.U.R.	2 m	CS-B2-02-R-02	95A251630
		5 m	CS-B2-02-R-05	95A251650

