# **SR23**

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#### **ODATALOGIC**



# HIGH EFFICIENCY FORK SENSOR FOR BOOKLET AND MULTILAYER LABELS DETECTION

- Multilayer labels detection
- Up to 0,5 mm of minimum size labels/gap
- 5 mm slot width
- 50 mm slot depth
- Dynamic or static setting through single push-button
- 12 kHz switching frequency
- Compact and robust housing, IP65
- M8 connector or 2 m cable models
- PNP or NPN models

#### **APPLICATIONS**

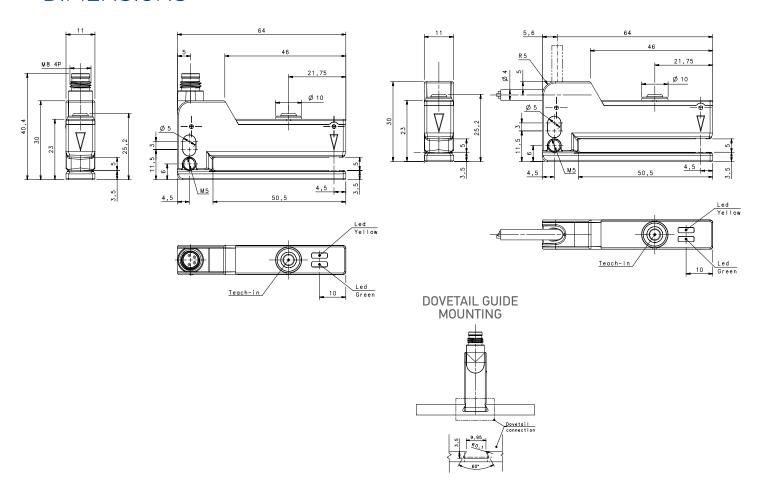
- Processing and Packaging machinery
- Automatic labelers

	SR23		
Slot width		5 mm	
Slot depth		50 mm	
Switching frequency		12 kHz	
Light emission	IR LED		
Setting		push button	
Power supply	Vdc	1030 Vdc	
	Vac		
	Vac/dc		
Output	PNP	•	
	NPN	•	
	NPN/PNP		
	relay		
	other		
Connection	cable	•	
	connector	•	
	pig-tail		
Approximate dimensions (mm)		30x63x10	
Housing material		Alluminum (Zama), Plastic (PBT)	
Mechanical protection		IP65	

## TECHNICAL DATA

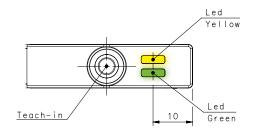
Power supply	10 30 Vdc (reverse polarity protection)		
Ripple	2 Vpp max.		
Consumption (output current excluded)	30 mA max.		
Light emission	IR LED 850 nm		
Setting	SET push-button		
Indicators	yellow OUTPUT LED		
marcators	green READY LED		
Output	PNP or NPN		
Output current	100 mA max.		
Saturation voltage	2 V max.		
Slot width	5 mm		
Slot depth	50 mm		
Minimum label width	0,52 mm		
Minimum space between labels	0,52 mm		
Speed of the conveyor during setting procedure	20 m/min (30 cm/s) max.		
Response time	40 μs max.		
Switching frequency	12 kHz max.		
Connection	M8 4-pole connector, 2 m cable		
Dielectric strength	500 Vac, 1 min between electronics and housing		
Insulating resistance	$> 20$ M $\Omega$ , 500 Vdc between electronics and housing		
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)		
Housing material	Aluminum (Zama)		
Cover material	PBT		
Lens material	PC		
Operating temperature	-20 55°C		
Storage temperature	-20 70°C		
Weight	85 g cable vers., 46 g M8 conn. vers.		

# **DIMENSIONS**



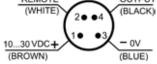
### INDICATORS AND SETTINGS





# CONNECTIONS





#### CABLE

BROWN	_1_	+1030 VDC
WHITE	2	REMOTE
BLACK	4	OUTPUT
BLUE	3	0 V

### MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION			MODEL	ORDER No.
Fork Sensor	2m Cable	PNP	SR23-2-IR-PH	953161000
		NPN	SR23-2-IR-NH	953161020
	M8 Connector	PNP	SR23-5-IR-PH	953161010
		NPN	SR23-5-IR-NH	953161030

#### **CABLES**

TYPE	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

