MINIATURE SENSORS

S41

Basic line of miniature European style photoelectric sensors

- Cost-effective universal models with adjustment trimmer
- Polarized retroreflective for transparent objects
- 4-wire connection NO/NC output or Remote teach

















APPLICATIONS

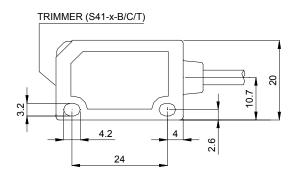
- -Processing and Packaging machinery
- -Conveyor lines, material handling
- -Automated warehousing

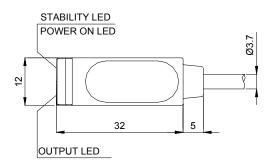
S41			
Through beam		0,16 m	
Polarized retroreflective (on R2 reflector)		0,12,5 m	
Retroreflective for transparent (on R2 reflector)		100700 mm	
Diffuse proximity		2350 mm	
Fixed focus		110 mm	
Power supply	Vdc	1030 V	
	Vac		
	Vac/dc		
Output	PNP	•	
	NPN	•	
	NPN/PNP		
	relay		
	other		
Connection	cable	•	
	connector	•	
	pig-tail		
Approximate dimensions (mm)		12x32x20	
Housing material		ABS	
Mechanical protection		IP67	

	TECHNICAL DATA		
Power supply	10 30 Vdc (reverse polarity protection)		
Ripple	10% max.		
Consumption (output current excluded)	35 mA max.		
Liebh amirain	red LED 660 nm (mod. S41B/D/P/T)		
Light emission	IR LED 880 nm (mod. S41C/G/H)		
Setting	sensivity trimmer (mod. S41B/C/T)		
Operating mode	LIGHT mode (mod. S41C/D); DARK mode (mod. S41B/F/P/T)		
Indicators	yellow OUTPUT LED		
	green STABILITY LED (mod. S41B/D/C/F/P), POWER LED (mod. S41G/H)		
Output	NPN or PNP, NO; NC		
Output current	100 mA max.		
Saturation voltage	2 V max.		
Response time	1 ms		
Switching frequency	500 Hz max.		
Connection	M8 4-pole connector, 2 m cable Ø 3,5 mm		
Dielectric strength	500 Vac, 1 min between electronics and housing		
Insulating resistance	>20 MΩ, 500 Vdc between electronics and housing		
Electrical protection	class 2		
Mechanical protection	IP66 (mod. S41B/C/T), IP67 (mod. S41D/F/G/P/H)		
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	ABS UL 94V-O		
Lens material	PMMA plastic		
Operating temperature	-25 +55 °C		
Storage temperature	-25 +70 °C		
Weight	40 g max. cable vers., 10 g max. conn. vers.		

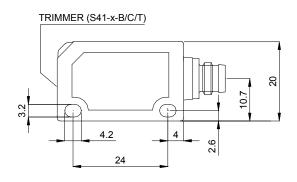
DIMENSIONS

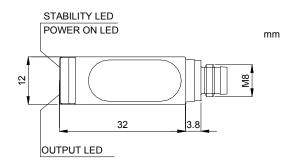
CABLE VERSION





M8 CONNECTOR VERSION





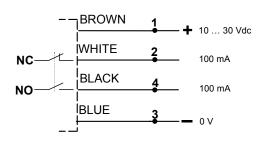
MINIATURE SENSORS

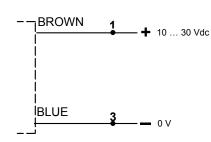
CONNECTIONS

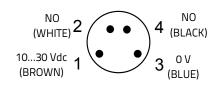
CABLE

M8 CONNECTOR

Through beam emitter

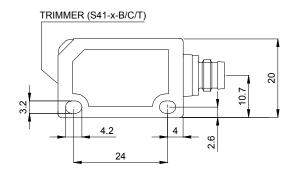


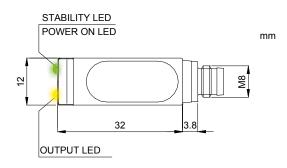




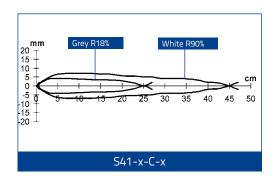
INDICATORS AND SETTINGS

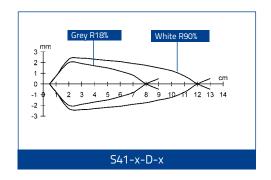


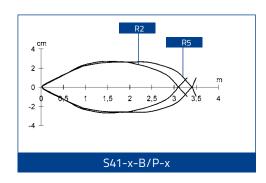


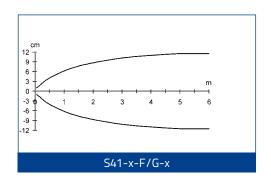


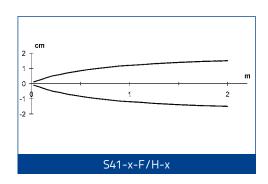
DETECTION DIAGRAMS

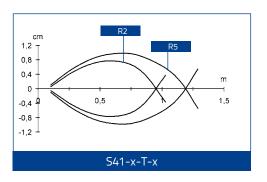












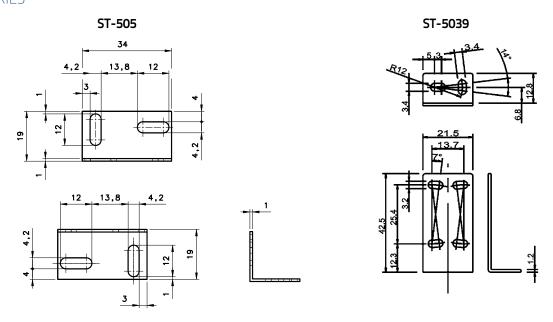
The detection diagrams indicate the typical operating distance with excess gain 1.

MINIATURE SENSORS

MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	ADJUSTMENT TRIMMER	CONNECTION	OUTPUT	MODEL	ORDER No.
Polarized retroreflective	Present	2m Cable	NPN	S41-2-B-N	950701150
			PNP	S41-2-B-P	950701000
		M8 Connector	NPN	S41-5-B-N	950701210
			PNP	S41-5-B-P	950701050
Polarized retroreflective	Absent	2m Cable	NPN	S41-2-P-N	950701190
			PNP	S41-2-P-P	950701100
		Connector	NPN	S41-5-P-N	950701250
		Connector	PNP	S41-5-P-P	950701110
Diffuse proximity		2m Cable	NPN	S41-2-C-N	950701160
	Drocont	ZIII Cable	PNP	S41-2-C-P	950701010
	Present	MQ Connector	NPN	S41-5-C-N	950701120
		M8 Connector	PNP	S41-5-C-P	950701060
Fixed focus	Absent	2m Cable	NPN	S41-2-D-N	950701170
			PNP	S41-2-D-P	950701020
		M8 Connector	NPN	S41-5-D-N	950701230
			PNP	S41-5-D-P	950701070
	Absent	2m Cable	NPN	S41-2-F-N	950701180
Through beam receiver			PNP	S41-2-F-P	950701030
		M8 Connector	NPN	S41-5-F-N	950701240
			PNP	S41-5-F-P	950701080
	Absent	2m Cable	-	S41-2-G	950701040
Through beam emitter		M8 Connector	-	S41-5-G	950701090
Through beam emitter with narrow beam	Absent		-	S41-2-H	950701045
with narrow beam		M8 Connector	-	S41-5-H	950701095
Retroreflective for transparent	Present	2m Cable	NPN	S41-2-T-N	950701200
			PNP	S41-2-T-P	950701130
		M8 Connector	NPN	S41-5-T-N	950701260
			PNP	S41-5-T-P	950701140

ACCESSORIES



MODEL	DESCRIPTION	ORDER NO.
ST-505	lateral mounting	95ACC2800
ST-5039	L-shaped fixing bracket	95ACC2270

CABLES

ТҮРЕ	DESCRIPTION	LENGTH	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