ODATALOGIC





S62

The most complete universal sensor in a compact 50x50 mm housing

- Sensors with red, infrared LED or LASER emission
- Background suppression from 3 cm to 2 m
- Polarized retroreflective up to 20 m
- Multivoltage 24-240Vac/24-60Vdc with Relay output
- NPN/PNP output NO-NC configuration



APPLICATIONS

-Processing and Packaging machinery -Conveyor lines, material handling





















562			
Through beam		025 m	
3		0.113 m	
Retroreflective (on R2 reflector)		0,18 m	
Polarized retroreflective		0,320 m (class 2 LASER)	
		short 0900 mm, long 02000 mm	
Diffuse proximity		0900 mm (class 2 LASER)	
		short 30300 mm	
		medium 60600 mm	
		long 601200 mm	
Background suppression			
		very long 2002000 mm	
		short LASER 30150 mm (class 2 LASER)	
	***	long LASER 50350 mm (class 2 LASER)	
_	Vdc	1030 V	
Power supply	Vac		
	Vac/dc	24/240 Vac/2460 Vdc	
	PNP	•	
	NPN	•	
Output	NPN/PNP	•	
	relay	•	
	other		
Connection	cable	•	
	connector	•	
	pig-tail		
Approximate dimensions (mm)		18x50x50	
Housing material		ABS	
Mechanical protection		IP67	

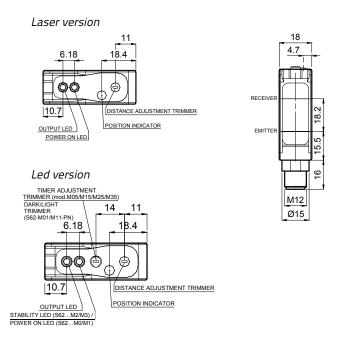


	10 001/11 / 1 000 015		
Power supply	10 30 Vdc (mod. \$622/5)		
11 /	24240 Vac/ 2460 Vdc (mod. S621)		
Ripple	2 Vpp max. (mod. S622/5), 10% max. (mod. S621)		
Consumption (output current excluded)	30 mA max. (mod. S622/5)		
· · · · ·	3 VA max. (mod. S621)		
	red LED 640 nm (mod. S62-PAA/B/C/G/M01/M05/M11/M15)		
Light emission	IR LED 880 nm (mod. S62-PAM21/M25/M31/M35) red Laser 645665 nm (mod. S62-PL)		
C III	· · · · · · · · · · · · · · · · · · ·		
Setting	sensititivity adjustment trimmer		
Operating mode	mono-turn LIGHT/DARK trimmer (mod. S62RX/PN)		
Indicators	yellow OUTPUT LED green STABILITY LED, POWER LED (S62G)		
	PNP or NPN N.O./N.C. (mod. S62PP/NN); NPN/PNP (mod. S62PN);		
Output	electromechanical SPDT 250 Vac/30 Vdc (mod. S62RX)		
Output current	100 mA max. (mod. S622/5), 2 A max. (mod. S621)		
Saturation voltage	2 V max. (mod. S622/5)		
2333.23.23.23.2	25 ms (mod. S621)		
	1,5 ms (mod. S62M3x)		
Response time	1 ms (mod. S622/5-F/G/M2x)		
nesponse time	500 μs (mod. S62-PA2/5-A/B/C/M0x/M1x)		
	200 μs (mod. S62-PLB/C/M11) 140 μs (mod. S62-PLM01)		
	20 Hz (mod. S621)		
	330 Hz (mod. S62M3x)		
Cuitabina functional	500 Hz (mod. S622/5-F/G/M2x)		
Switching frequency	1 kHz (mod. S62-PA2/5-A/B/C/M0x/M1x)		
	2,5 kHz (mod. S62-PLB/C/M11)		
6	3,5 kHz (mod. S62-PLM01)		
Connection Dielostria strongth	M12 4-pole connector, 2 m Ø 4 mm cable vers., 2 m Ø 5 mm cable vers.		
Dielectric strength Insulation resistence	500 Vac 1 min., between electronics and housing		
Mechanical protection	>20 MΩ 500 Vdc, between electronics and housing IP67		
Ambient light rejection	According to EN 60947-5-2		
Vibrations	0.5 mm amplitude, 10 55 Hz frequency, for each axis (EN60068-2-6)		
Shock resistence	11ms (30G) 6 shock for every axis (EN60068-2-27)		
Housing material	ABS		
Lens material	PMMA window, policarbonate lens		
Operating temperature	-1055 °C		
Storage temperature	-20 70 °C		
Weight	40 g max. conn. vers., 90 max. cable vers.		

DIMENSIONS

OUTPUT LED

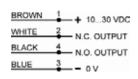
Background suppression





CONNECTIONS

VDC MODELS



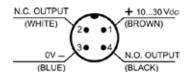
Through beam emitter

BROWN 1 + 10...30 VDC

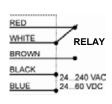
WHITE 2 TEST+

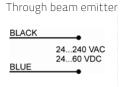
BLACK 4 TEST
BLUE 3 - 0.V

M12 CONNECTOR

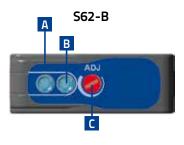


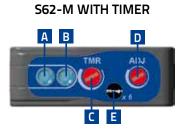
VAC MODELS

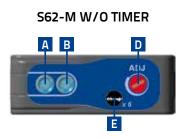




INDICATORS AND SETTINGS



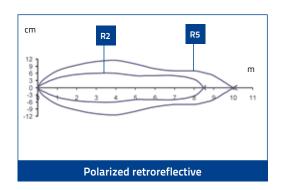


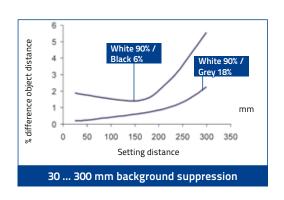


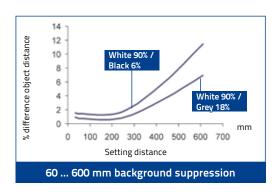
- A Output status LED
- B Stability LED or Power ON LED (laser vers.)
- Timer adjustment trimmer
- D Distance adjustment trimmer
- E Geared numeric scale
- M12 connector output
- G Cable output

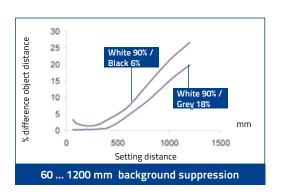
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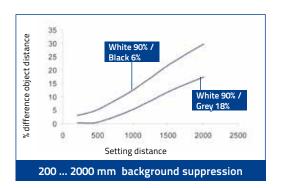
DETECTION DIAGRAMS OF MODELS WITH LED EMISSION







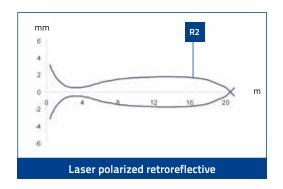


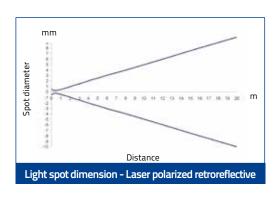


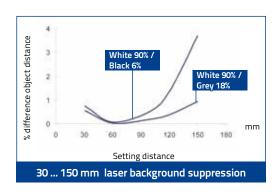


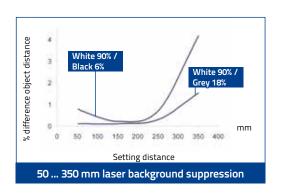


DETECTION DIAGRAMS OF MODELS WITH LASER EMISSION

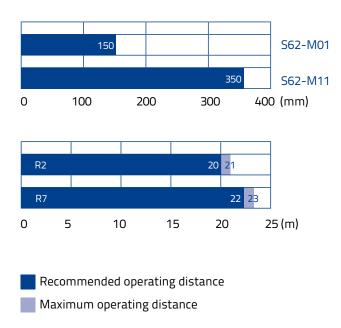








Reflector operating distances (m)					
R1	R2	R6	R7 / R20	R8	
0.3 16	0.3 20	0.4 22	0.3 22	0.2 2	
The use of the RT3970 reflecting tape is suggested.					



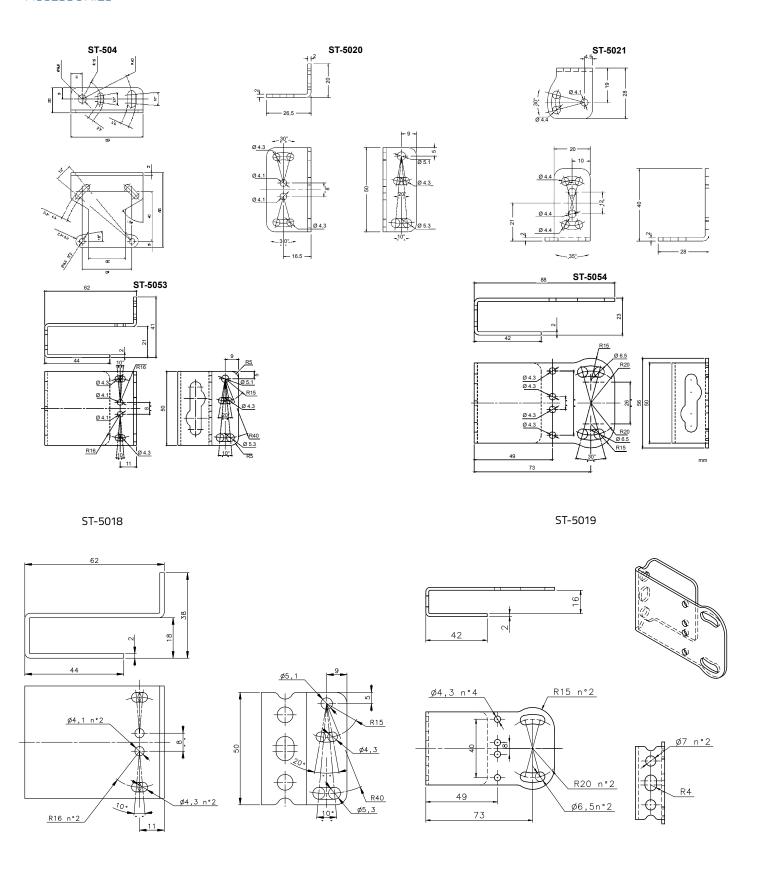


MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	EMISSION	CONNECTION	OUTPUT	MODEL	ORDER No
	LED	2m Cable	PNP/NPN	S62-PA-2-A01-PN	956211240
Retroreflective	(red 640nm)	M12 Connector	PNP/NPN	S62-PA-5-A01-PN	956211310
		Vac relay	Relay	S62-PA-1-A01-RX	956211180
		2m Cable	PNP/NPN	S62-PA-2-B01-PN	956211250
			PNP	S62-PA-2-B01-PP	956211010
	LED		NPN	S62-PA-5-B01-NN	956211020
Polarized retroreflective	(red 640nm)	M12 Connector	PNP/NPN	S62-PA-5-B01-PN	956211320
1 dianzea regioreneenve			PNP	S62-PA-5-B01-PP	956211000
		Vac relay	Relay	S62-PA-1-B01-RX	956211190
	LASED	M12 Connector	NPN	S62-PL-5-B01-NN	956211100
	LASER	WHZ CONNECTOR	PNP	S62-PL-5-B01-PP	956211110
			NPN	S62-PA-2-C01-NN	956211420
		2m Cable	PNP/NPN	S62-PA-2-C01-PN	956211260
			PNP	S62-PA-2-C01-PP	956211380
	LED (red 640nm)		NPN	S62-PA-5-C01-NN	956211500
	(red 646mm)	M12 Connector	PNP/NPN	S62-PA-5-C01-PN	956211330
Short diffused proximity			PNP	S62-PA-5-C01-PP	956211460
. ,		Vac relay	Relay	S62-PA-1-C01-RX	956211200
		,	NPN	S62-PL-2-C01-NN	956211440
		2m Cable	PNP	S62-PL-2-C01-PP	956211400
	LASER		NPN	S62-PL-5-C01-NN	95621152
		M12 Connector	PNP	S62-PL-5-C01-PP	95621148
			NPN	S62-PA-2-C11-NN	95621143
		2m Cable	PNP/NPN	S62-PA-2-C11-PN	95621127
		ZIII Cable	PNP	S62-PA-2-C11-PP	95621139
Long diffused provimity	LED		NPN	S62-PA-5-C11-NN	95621151
Long diffused proximity	(red 640nm)	M12 Cannastas	PNP/NPN		
		M12 Connector		S62-PA-5-C11-PN	95621134
			PNP	S62-PA-5-C11-PP	95621147
		Vac relay	Relay	S62-PA-1-C11-RX	95621121
			NPN	S62-PA-2-F01-NN	95621145
		2m Cable	PNP/NPN	S62-PA-2-F01-PN	95621129
			PNP	S62-PA-2-F01-PP	95621141
Through beam receiver	-		NPN	S62-PA-5-F01-NN	95621153
		M12 Connector	PNP/NPN	S62-PA-5-F01-PN	95621136
			PNP	S62-PA-5-F01-PP	95621149
		Vac relay	Relay	S62-PA-1-F01-RX	95621122
	1.50	2m Cable		S62-PA-2-G00-XG	95621130
Through beam emitter	LED (red 640nm)	M12 Connector	-	S62-PA-5-G00-XG	95621137
	(100 0 101111)	Vac relay		S62-PA-1-G00-XX	95621123
		Des Cable	PNP/NPN	S62-PA-2-M01-PN	95621128
		2m Cable	PNP	S62-PA-2-M01-PP	95620184
			NPN	S62-PA-5-M01-NN	95620181
	LED (red 5(00m))		PNP/NPN	S62-PA-5-M01-PN	95621135
Background suppression (short distance)	(red 640nm)	M12 Connector	PNP	S62-PA-5-M01-PP	95620183
(SHOLE distance)			NPN	S62-PA-5-M05-NN	95620180
	LAGED		PNP	S62-PA-5-M05-PP	95620182
		1400 5	NPN	S62-PL-5-M01-NN	956211120
	LASER	M12 Connector	PNP	S62-PL-5-M01-PP	956211130
		2m Cable	PNP	S62-PA-2-M11-PP	95620189
			NPN	S62-PA-5-M11-NN	95620186
	LED (red 640nm)	M43.C	PNP	S62-PA-5-M11-PP	95620188
Background suppression (medium distance)	(red 640HIII)	M12 Connector	NPN	S62-PA-5-M15-NN	95620185
(medium distance)			PNP	S62-PA-5-M15-PP	95620187
	LACED		NPN	S62-PL-5-M11-NN	95621114
	LASER	M12 Connector	PNP	S62-PL-5-M11-PP	95621115
	LED	2m Cable	PNP	S62-PA-2-M21-PP	95620194
		M12 Connector	NPN	S62-PA-5-M21-NN	95620191
Background suppression			PNP	S62-PA-5-M21-PP	95620190
(long distance)			NPN	S62-PA-5-M25-NN	95620193
			PNP	S62-PA-5-M25-PP	95620192
	(infrared 880nm)	2m Cable	PNP	S62-PA-2-M31-PP	956211050
	(a.ca acomin)	Zim cdoic	NPN	S62-PA-5-M31-NN	95621106
			INPIN		
Background suppression					956211070
Background suppression (very long distance)		M12 Connector	PNP NPN	S62-PA-5-M31-PP S62-PA-5-M35-NN	956211070 956211080

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ACCESSORIES





MODEL	DESCRIPTION	ORDER No.
ST-5018	protective bracket	95ACC5310
ST-5019	protective bracket	95ACC5320
ST-5020	mounting bracket	95ACC5330
ST-5021	mounting bracket	95ACC5340
ST-504	mounting bracket	95ACC2820
ST-5053	protective bracket	95ACC2410
ST-5054	protective bracket	95ACC2420
JOINT-S62	protective bracket with jointed support	95ACC2430

CABLES

TYPE	DESCRIPTION	LENGTH	MODEL	ORDER No.
Axial M12 Connector		3 m	CS-A1-02-G-03	95A251380
	/ pole grov DVC	5 m	CS-A1-02-G-05	95A251270
	4-pole, grey, P.V.C.	7 m	CS-A1-02-G-07	95A251280
		10 m	CS-A1-02-G-10	95A251390
	4-pole, P.U.R.	2 m	CS-A1-02-R-02	95A251540
	4-poie, P.U.R.	5 m	CS-A1-02-R-05	95A251560
	4-pole, grey, P.V.C.	3 m	CS-A2-02-G-03	95A251360
		5 m	CS-A2-02-G-05	95A251240
Radial M12 Connector		7 m	CS-A2-02-G-07	95A251245
Radial W12 Colliector		10 m	CS-A2-02-G-10	95A251260
	4-pole, P.U.R.	2 m	CS-A2-02-R-02	95A251550
	4-poie, P.U.R.	5 m	CS-A2-02-R-05	95A251570
Radial M12 Connector	4-pole, grey, P.V.C.	3 m	CS-A2-12-G-03	95A251400
with LED		5 m	CS-A2-12-G-05	95A251350
(for PNP N.O. sensors)		10 m	CS-A2-12-G-10	95A251370
	4-pole, shielded, black, P.V.C.	3 m	CV-A1-22-B-03	95ACC1480
		5 m	CV-A1-22-B-05	95ACC1490
Axial M12 Connector		10 m	CV-A1-22-B-10	95ACC1500
		15 m	CV-A1-22-B-15	95ACC2070
		25 m	CV-A1-22-B-25	95ACC2090
		3 m	CV-A2-22-B-03	95ACC1540
Radial M12 Connector		5 m	CV-A2-22-B-05	95ACC1550
		10 m	CV-A2-22-B-10	95ACC1560
	4-pole, U.L., black, P.V.C.	3 m	CS-A1-02-U-03	95ASE1120
		5 m	CS-A1-02-U-05	95ASE1130
Axial M12 Connector		10 m	CS-A1-02-U-10	95ASE1140
AXIAI IVI IZ COITIIECCOF		15 m	CS-A1-02-U-15	95ASE1150
		25 m	CS-A1-02-U-25	95ASE1160
	/ pole black	Connector- not cabled	CS-A1-02-B-NC	G5085002
Radial M12 Connector	4-pole, black	Connector- not cabled	CS-A2-02-B-NC	G5085003