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





















S62			
Through beam		025 m	
Retroreflective (on R2 reflector)		0,113 m	
Polarized retroreflective		0,18 m	
		0,320 m (class 2 LASER)	
Diffuse proximity		short 0900 mm, long 02000 mm	
		0900 mm (class 2 LASER)	
		short 30300 mm	
		medium 60600 mm	
Background suppression		long 601200 mm	
ackground 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		
	cable	•	
Connection	connector	•	
	pig-tail		
Approximate dimensions (mm)		18x50x50	
lousing material		ABS	
Mechanical protection		IP67	

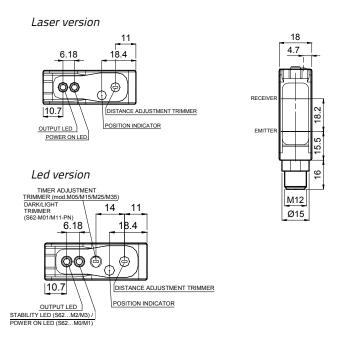


TECHNICAL DATA				
Power supply	10 30 Vdc (mod. S622/5)			
11.7	24240 Vac/ 2460 Vdc (mod. S621)			
Ripple	2 Vpp max. (mod. S622/5), 10% max. (mod. S621)			
Consumption (output current excluded)	30 mA max. (mod. S622/5)			
1 1 1	3 VA max. (mod. S621)			
11.10	red LED 640 nm (mod. S62-PAA/B/C/G/M01/M05/M11/M15)			
Light emission	IR LED 880 nm (mod. S62-PAM21/M25/M31/M35) red Laser 645665 nm (mod. S62-PL)			
C.W.	· · · ·			
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. S62PX)			
Output current	100 mA max. (mod. S622/5), 2 A max. (mod. S621)			
Saturation voltage	2 V max. (mod. S622/5)			
2000.2000.00000	25 ms (mod. S621)			
	1,5 ms (mod. S62M3x)			
Response time	1 ms (mod. S622/5-F/G/M2x)			
Response time	500 μs (mod. S62-PA2/5-A/B/C/M0x/M1x)			
	200 μs (mod. S62-PLΒ/C/M11)			
	140 µs (mod. S62-PLM01) 20 Hz (mod. S621)			
	330 Hz (mod. S62M3x)			
Cuitabina function	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)			
	3,5 kHz (mod. S62-PLM01)			
Connection	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

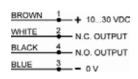
Background suppression





CONNECTIONS

VDC MODELS



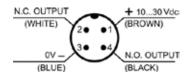
Through beam emitter

BROWN 1 + 10...30 VDC

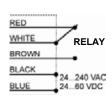
WHITE 2 TEST+

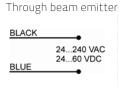
BLACK 4 TEST
BLUE 3 - 0.V

M12 CONNECTOR

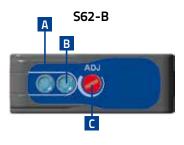


VAC MODELS

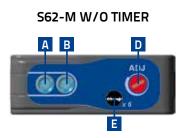




INDICATORS AND SETTINGS



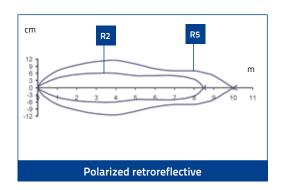


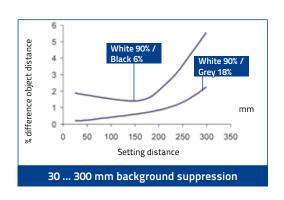


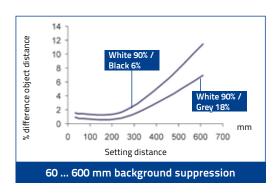
- A Output status LED
- B Stability LED or Power ON LED (laser vers.)
- Timer adjustment trimmer
- D Distance adjustment trimmer
- E Geared numeric scale
- M12 connector output
- G Cable output

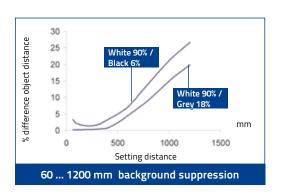
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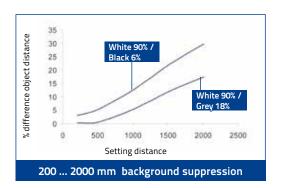
DETECTION DIAGRAMS OF MODELS WITH LED EMISSION

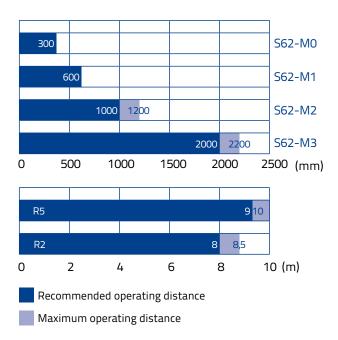






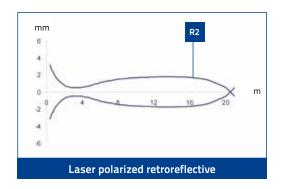


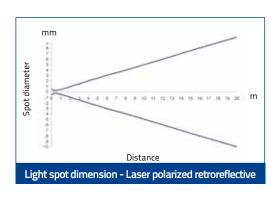


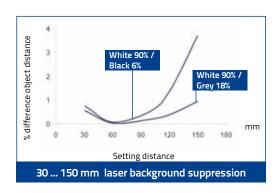


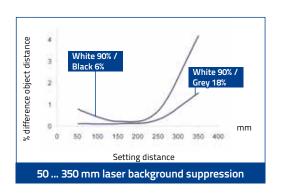


DETECTION DIAGRAMS OF MODELS WITH LASER EMISSION

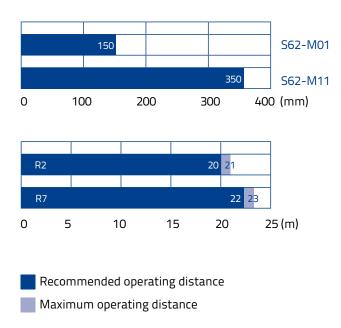








Reflector operating distances (m)					
R1	R2	R6	R7 / R20	R8	
0.3 16	0.3 20	0.4 22	0.3 22	0.2 2	
The use of the RT3970 reflecting tape is suggested.					



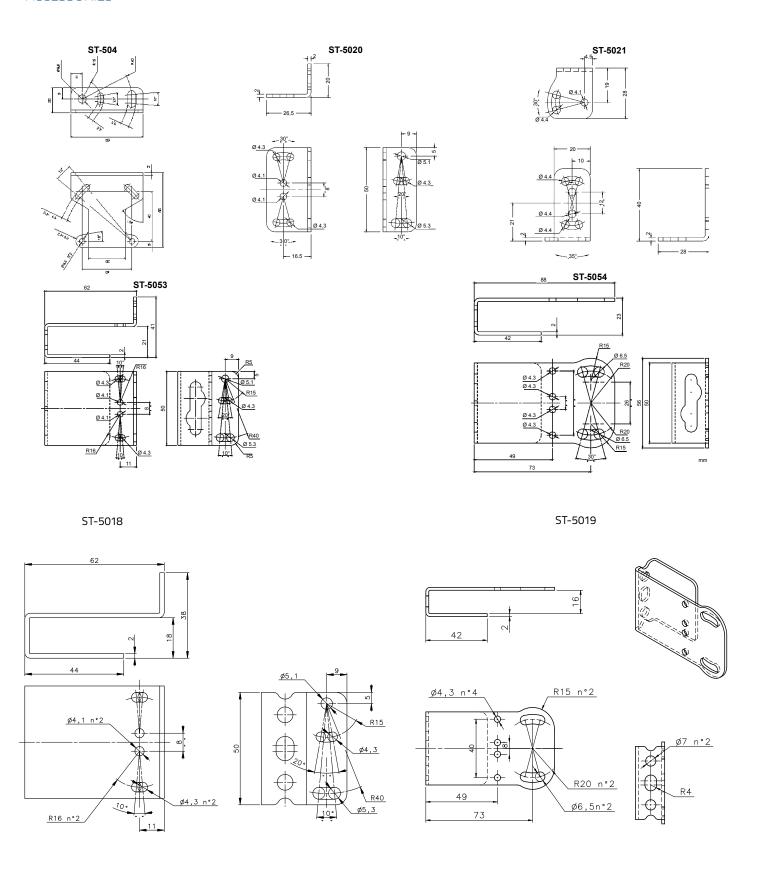


MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	EMISSION	CONNECTION	SETTING	OUTPUT	MODEL	ORDER No
	. 55	2m Cable	sensitivity trimmer	PNP/NPN	S62-PA-2-A01-PN	956211240
Retroreflective	LED (red 640nm)	M12 Connector	(mono turn)	PNP/NPN	S62-PA-5-A01-PN	956211310
	(100 0 101111)	Vac relay	mono-turn light/dark trimmer	Relay	S62-PA-1-A01-RX	956211180
		2m Cable		PNP/NPN	S62-PA-2-B01-PN	956211250
		ZIII Cable		PNP	S62-PA-2-B01-PP	956211010
	LED	M12 Connector	sensitivity trimmer (mono-turn)	NPN	S62-PA-5-B01-NN	956211020
	(red 640nm)		(mono tarri)	PNP/NPN	S62-PA-5-B01-PN	956211320
plarized retroreflective				PNP	S62-PA-5-B01-PP	956211000
		Vac relay	mono-turn light/dark trimmer	Relay	S62-PA-1-B01-RX	956211190
		,		NPN	S62-PL-5-B01-NN	956211100
	LASER	M12 Connector	mono-turn light/dark trimmer	PNP	S62-PL-5-B01-PP	956211110
		2m Cable		NPN	S62-PA-2-C01-NN	956211420
				PNP/NPN	S62-PA-2-C01-PN	956211260
			sensitivity trimmer	PNP	S62-PA-2-C01-PP	956211380
	LED		(mono-turn)	NPN	S62-PA-5-C01-NN	956211500
	(red 640nm)	M12 Connector		PNP/NPN	S62-PA-5-C01-PN	956211330
ort diffused proximity		WITZ CONNECTOR		PNP	S62-PA-5-C01-PP	956211460
ore annuscu proximity		Vac relay	mono-turn light/dark trimmer	Relay	S62-PA-1-C01-RX	956211200
		vacietay	mono-turn light/ dark tillilliller			
		2m Cable		NPN PNP	S62-PL-2-C01-NN	956211440
	LASER		- ,		S62-PL-2-C01-PP	956211400 956211520
		M12 Connector		NPN	S62-PL-5-C01-NN	
				PNP	S62-PL-5-C01-PP	95621148
		2 (-11	sensitivity trimmer (mono turn)	NPN	S62-PA-2-C11-NN	95621143
		2m Cable	(mono cam)	PNP/NPN	S62-PA-2-C11-PN	95621127
1.00	LED			PNP	S62-PA-2-C11-PP	95621139
ong diffused proximity	(red 640nm)			NPN	S62-PA-5-C11-NN	956211510
		M12 Connector		PNP/NPN	S62-PA-5-C11-PN	95621134
				PNP	S62-PA-5-C11-PP	95621147
		Vac relay	mono-turn light/dark trimmer	Relay	S62-PA-1-C11-RX	95621121
				NPN	S62-PA-2-F01-NN	95621145
		2m Cable	sensitivity trimmer (mono turn)	PNP/NPN	S62-PA-2-F01-PN	95621129
				PNP	S62-PA-2-F01-PP	95621141
nrough 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	mono-turn light/dark trimmer	Relay	S62-PA-1-F01-RX	95621122
	1.50	2m Cable			S62-PA-2-G00-XG	956211300
hrough beam emitter	LED (red 640nm)	M12 Connector	sensitivity trimmer (mono turn)	-	S62-PA-5-G00-XG	956211370
	(164 0401111)	Vac relay			S62-PA-1-G00-XX	956211230
		Des Cable		PNP/NPN	S62-PA-2-M01-PN	956211280
		2m Cable		PNP	S62-PA-2-M01-PP	95620184
	. ==		6 turns distance adjustment trimmer	NPN	S62-PA-5-M01-NN	95620181
Background	LED (red 640nm)		diffinel	PNP/NPN	S62-PA-5-M01-PN	95621135
suppression	(rea o-omin)	M12 Connector		PNP	S62-PA-5-M01-PP	95620183
(short distance)			timer adjustment trimmer	NPN	S62-PA-5-M05-NN	95620180
			timer adjustment trimmer	PNP	S62-PA-5-M05-PP	95620182
	LASER	M12 Connector	4 turns distance adjustment trimmer	NPN	S62-PL-5-M01-NN	95621112
	LUJEIN			PNP	S62-PL-5-M01-PP	95621113
		2m Cable	C turns distance a divistra	PNP	S62-PA-2-M11-PP	95620189
	LED		6 turns distance adjustment trimmer	NPN	S62-PA-5-M11-NN	95620186
Background	(red 640nm)	M12 Connector		PNP	S62-PA-5-M11-PP	95620188
suppression		WITZ CONNECTOR	timer adjustment	NPN	S62-PA-5-M15-NN	95620185
(medium distance)			trimmer	PNP	S62-PA-5-M15-PP	95620187
	LASER	M12 Connector	6 turns distance adjustment	NPN	S62-PL-5-M11-NN	95621114
	LAJLA		trimmer	PNP	S62-PL-5-M11-PP	95621115
	LED	2m Cable	6 turns distance adjustment	PNP	S62-PA-2-M21-PP	95620194
Background			trimmer	NPN	S62-PA-5-M21-NN	95620191
suppression		M12 Connector	Cimino	PNP	S62-PA-5-M21-PP	95620190
(long distance)			timer adjustment	NPN	S62-PA-5-M25-NN	95620193
				trimmer	PNP	S62-PA-5-M25-PP
	(infrared 880nm)	2m Cable	6 turns distance adjustment	PNP	S62-PA-2-M31-PP	95621105
Background			6 turns distance adjustment trimmer	NPN	S62-PA-5-M31-NN	95621106
suppression (very long distance)		M12 Connector	unninei	PNP	S62-PA-5-M31-PP	95621107
			timer adjustment	NPN	S62-PA-5-M35-NN	95621108
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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	200	3 m	CS-A1-02-G-03	95A251380
		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
		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
		3 m	CV-A1-22-B-03	95ACC1480
	4-pole, shielded, black, P.V.C.	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
		Connector- not cabled	CS-A1-02-B-NC	G5085002
Radial M12 Connector	4-pole, black	Connector- not cabled	CS-A2-02-B-NC	G5085003