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Heavy duty sensor for outdoor applications and harsh environments

EN4

- Industrial plastic housing with IP67 mechanical protection
- Defogging system function

S300 PR

Double independent timing functions with double time

scale from 0-2s or 0-10s, One-Delay, Off Delay, ONE SHOT

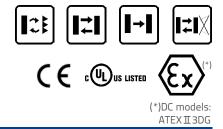


APPLICATIONS

-Packaging end of line, palletizers

-Outdoor or indoor gates control

- -Automotive plants
- -Automated warehousing

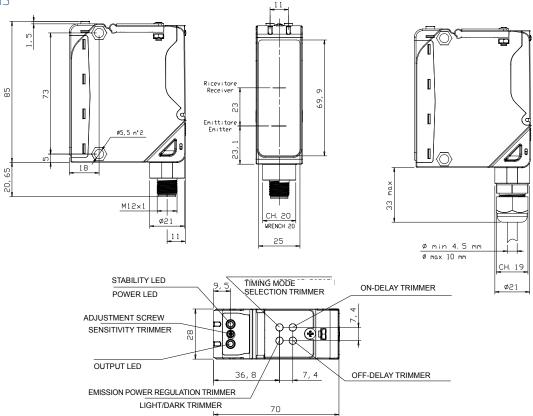


S300 PA			
Through beam		060 m	
Polarized retroreflective		0,122 m	
Diffuse proximity		0,055 m	
Background suppression		0,42,5 m	
Power supply	Vdc	1030 V	
	Vac		
	Vac/dc	24240 Vac/2460 Vdc	
	PNP		
	NPN		
Output	NPN/PNP	•	
	relay	•	
	other		
	cable		
Connection	connector	•	
	pig-tail		
Approximate dimensions (mm)		25x100x70	
Housing material		PBT	
Mechanical protection		IP67	

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	TECHNICAL DATA			
Power supply	10 30 Vdc (mod. S3002/5)			
Power supply	24240 Vac/2460 Vdc (mod. S3001)			
Ripple	10% max.			
	30 mA max. (mod. S3002/5-B/C)			
Consumption (output current	35 mA max. (mod. S3002/5-M) 25 mA max. (mod. S3002/5-F)			
excluded)	20 mA max. (mod. S3002/5-F)			
	3 VA max. (mod. S3001)			
	red LED 660 nm (mod. 5300B)			
Light emission	IR LED 880 nm (mod. S300C/G/M)			
	sensitivity trimmer, DARK/LIGHT trimmer (mod. S300F/C/B)			
	15 turns adjustment screw/DARK/LIGHT trimmer (mod. S300M)			
Setting	emission power regulation trimmer (mod. S300G)			
	versions with timing functions: time base selection and one shot trimmer/ON DELAY trimmer/OFF DELAY trimmer (mod. S300x06)			
Indicators	yellow OUTPUT LED (excl. mod. S300G)			
Indicators	green STABILITY LED, POWER LED (mod. S300G)			
Output	PNP or NPN open collector (mod. S3002/5); Electromechanical SPDT 250 Vac/30 Vdc (mod. S3001)			
Output current	100 mA (mod. S3002/5)			
•	3 A max. (mod. S3001) 2.4 V max.			
Saturation voltage	1 ms (mod. S3002/5-B/C/F/G)			
Response time	2 ms (mod. S3002/5-M)			
	20 ms (mod. S3001)			
	500 Hz (mod. S3002/5-/B/C/F/G)			
Switching frequency	250 Hz (mad. S3002/5-M)			
0 1 7	25 Hz (mod. S3001)			
Connection	terminal block, M12 4-pole connector (only DC mod.)			
Dielectric strength	500 Vac, 1 min between electronics and housing			
Insulating resistance	>20 MΩ, 500 Vdc between electronics and housing			
Electrical protection	class 2 (mod. S3002/5)			
Mechanical protection	IP67 (IEC/EN60529)/cable gland EN50262			
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	PBT 30% glass fiber-reiforced			
Lens material	frontal window and lens in PC			
Operating temperature	-40 55 °C -40 70 °C			
Storage temperature				
Weight	140 g (mod. S3002/5), 150 g (mod. S3001)			

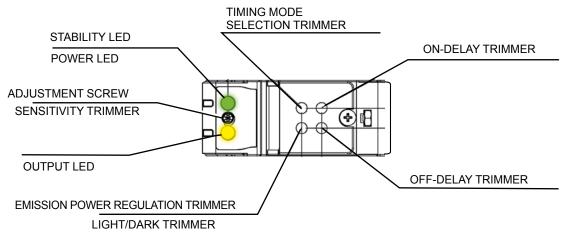
DIMENSIONS

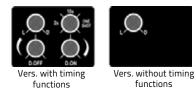


OIDOJATAC

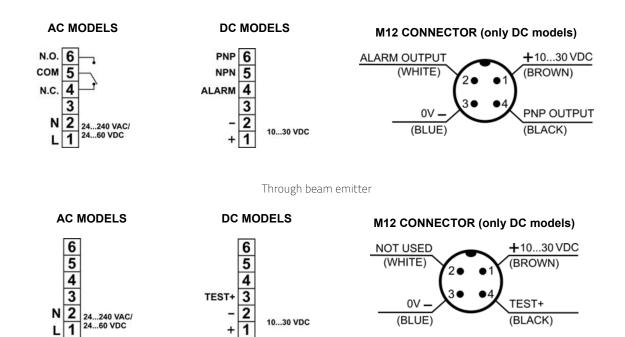
INDICATORS AND SETTINGS





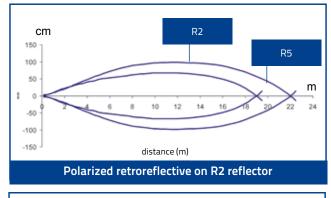


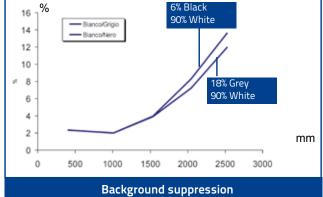
CONNECTIONS



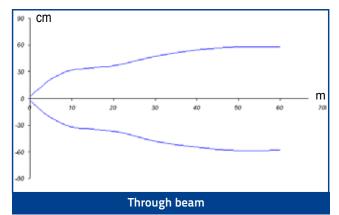
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DETECTION DIAGRAMS





mm 90% White 150 18% Grey 100 50 mm 1 0 2000 5000 6000 000 -50 -100 -150 distance (mm) **Diffuse proximity**

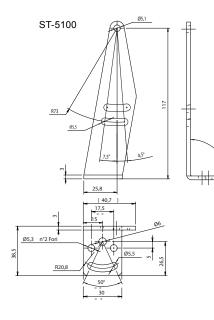


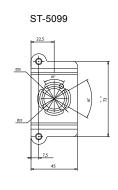
MODEL SELECTION AND ORDER INFORMATION

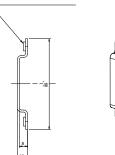
OPTIC FUNCTION	OUTPUT	CONNECTION	SETTING	MODEL	ORDER No
Polarized retroreflective		Vdc - Terminal block	Sensitivity and D/L trimmers	S300-PR-2-B01-OC	951451000
			Timing, sensitivity and D/L trimmers	S300-PR-2-B06-OC	951451010
	NPN/PNP	Vdc - M12 Connector	Sensitivity and D/L trimmers	S300-PR-5-B01-OC	951451020
			Timing, sensitivity and D/L trimmers	S300-PR-5-B06-OC	951451030
	Relay	Vac - Terminal block	Sensitivity and D/L trimmers	S300-PR-1-B01-RX	951451040
			Timing, sensitivity and D/L trimmers	S300-PR-1-B06-RX	951451050
			Timing, sensitivity and D/L trimmers; defogging function	S300-PR-1-B06-RX-M	95145106
	NPN/PNP	Vdc - Terminal block	Sensitivity and D/L trimmers	S300-PR-2-C01-OC	95145107
			Timing, sensitivity and D/L trimmers	S300-PR-2-C06-OC	951451080
Diffused proximity		Vdc - M12 Connector	Sensitivity and D/L trimmers	S300-PR-5-C01-OC	95145109
		Vuc - IVITZ CONTIECTOR	Timing, sensitivity and D/L trimmers	S300-PR-5-C06-OC	951451100
			Sensitivity and D/L trimmers	S300-PR-1-C01-RX	95145111
	Relay	Vac - Terminal block	Timing, sensitivity and D/L trimmers	S300-PR-1-C06-RX	95145112
			Timing, sensitivity and D/L trimmers; defogging function	S300-PR-1-C06-RX-M	95145113
		Vdc - Terminal block	Sensitivity and D/L trimmers	S300-PR-2-F01-OC	95145121
	NPN/PNP		Timing, sensitivity and D/L trimmers	S300-PR-2-F06-OC	95145122
	NPN/PNP	Vdc - M12 Connector	Sensitivity and D/L trimmers	S300-PR-5-F01-OC	95145123
Through beam receiver		Vuc - IVITZ CONTIECTOR	Timing, sensitivity and D/L trimmers	S300-PR-5-F06-OC	95145124
	Relay	Vac - Terminal block	Sensitivity and D/L trimmers	S300-PR-1-F01-RX	95145125
			Timing, sensitivity and D/L trimmers	S300-PR-1-F06-RX	95145126
			Timing, sensitivity and D/L trimmers; defogging function	S300-PR-1-F06-RX-M	95145127
		Vdc - Terminal block		S300-PR-2-G00-EX	95145128
Thursda h		Vdc - M12 Connector	Emission power regulation trimmer	S300-PR-5-G00-EX	95145129
Through beam emitter	-	Vac - Terminal block		S300-PR-1-G00-EX	95145130
			Defogging function	S300-PR-1-G00-EX-M	95145131
	NPN/PNP	Vdc - Terminal block	Sensitivity and D/L trimmers	S300-PR-2-M01-OC	95145114
Background suppression			Timing, sensitivity and D/L trimmers	S300-PR-2-M06-OC	95145115
		Vdc - M12 Connector	Sensitivity and D/L trimmers	S300-PR-5-M01-OC	95145116
			Timing, sensitivity and D/L trimmers	S300-PR-5-M06-OC	95145117
	Relay	Vac - Terminal block	Sensitivity and D/L trimmers	S300-PR-1-M01-RX	95145118
			Timing, sensitivity and D/L trimmers	S300-PR-1-M06-RX	95145119
			Timing, sensitivity and D/L trimmers; defogging function	S300-PR-1-M06-RX-M	95145120

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ACCESSORIES







n*2 M5 self clinching nut



MODEL	DESCRIPTION	ORDER No.
ST-5099	mounting BRACKET	95ACC2830
ST-5100	mounting BRACKET	95ACC2840

CABLES

TYPE	DESCRIPTION	LENGTH	MODEL	ORDER No.
Axial M12 Connector		3 m	CS-A1-02-G-03	95A251380
	(polo grov D)/C	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
Radial M12 Connector	4-pole, grey, P.V.C.	3 m	CS-A2-02-G-03	95A251360
		5 m	CS-A2-02-G-05	95A251240
		7 m	CS-A2-02-G-07	95A251245
	-	10 m	CS-A2-02-G-10	95A251260
		2 m	CS-A2-02-R-02	95A251550
	4-pole, P.U.R.	5 m	CS-A2-02-R-05	95A251570
		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
	4-pole, shielded, black, P.V.C.	25 m	CV-A1-22-B-25	95ACC2090
Radial M12 Connector		3 m	CV-A2-22-B-03	95ACC1540
		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
Axial M12 Connector		5 m	CS-A1-02-U-05	95ASE1130
		10 m	CS-A1-02-U-10	95ASE1140
		15 m	CS-A1-02-U-15	95ASE1150
		25 m	CS-A1-02-U-25	95ASE1160
	ć - 1 - 1 - 1	Connector- not cabled	CS-A1-02-B-NC	G5085002
Radial M12 Connector	4-pole, black	Connector- not cabled	CS-A2-02-B-NC	G5085003

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