MAXI SENSORS

S300 PR

\$DATALOGIC





Heavy duty sensor for outdoor applications and harsh environments

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

(*)DC models: ATEX II 3DG

S300 PA				
Through beam		060 m		
Polarized retroreflective		0,122 m		
Diffuse proximity		0,055 m		
Background suppression		0,42,5 m		
	Vdc	1030 V		
Power supply	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		

TECHNICAL DATA

Power ownely	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)			
excluded)	25 mA max. (mod. S3002/5-F)			
,	20 mA max. (mod. S3002/5-G)			
	3 VA max. (mod. S3001)			
Liaht emission	red LED 660 nm (mod. S300B)			
	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. S300			
	vellow OLITPLITE FD (eycl. mod. S300. G)			
Indicators	green STABILITY I ED POWER I ED (mod S300 G)			
Output	PNP or NPN open collector (mod. S300, -/2); Electromechanical SPDT 250 Vac/30 Vdc (mod. S300, -1)			
	100 mA (mod. S3002/5)			
Output current	3 A max. (mod. S3001)			
Saturation voltage	2.4 V max.			
2	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 (mod. S3002/5-M)			
	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 M Ω , 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			
Storage temperature	-40 70 °C			
Weight	140 g (mod. S3002/5), 150 g (mod. S3001)			

DIMENSIONS



INDICATORS AND SETTINGS







CONNECTIONS



DETECTION DIAGRAMS







MODEL SELECTION AND ORDER INFORMATION

	OUTPUT			MODEL	ORDER No.
Polarized retroreflective	NPN/PNP	Vdc - Terminal block	Sensitivity and D/L trimmers	S300-PR-2-B01-0C	951451000
			Timing, sensitivity and D/L trimmers	S300-PR-2-B06-OC	951451010
		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	951451060
	NPN/PNP	Vdc - Terminal block	Sensitivity and D/L trimmers	S300-PR-2-C01-OC	951451070
			Timing, sensitivity and D/L trimmers	S300-PR-2-C06-OC	951451080
		Vdc - M12 Connector	Sensitivity and D/L trimmers	S300-PR-5-C01-OC	951451090
Diffused proximity			Timing, sensitivity and D/L trimmers	S300-PR-5-C06-OC	951451100
	Relay	Vac - Terminal block	Sensitivity and D/L trimmers	S300-PR-1-C01-RX	951451110
			Timing, sensitivity and D/L trimmers	S300-PR-1-C06-RX	951451120
			Timing, sensitivity and D/L trimmers; defogging function	S300-PR-1-C06-RX-M	951451130
	NPN/PNP	Vdc - Terminal block	Sensitivity and D/L trimmers	S300-PR-2-F01-0C	951451210
			Timing, sensitivity and D/L trimmers	S300-PR-2-F06-OC	951451220
		Vdc - M12 Connector	Sensitivity and D/L trimmers	S300-PR-5-F01-OC	951451230
Through beam receiver			Timing, sensitivity and D/L trimmers	S300-PR-5-F06-OC	951451240
	Relay	Vac - Terminal block	Sensitivity and D/L trimmers	S300-PR-1-F01-RX	951451250
			Timing, sensitivity and D/L trimmers	S300-PR-1-F06-RX	951451260
			Timing, sensitivity and D/L trimmers; defogging function	S300-PR-1-F06-RX-M	951451270
		Vdc - Terminal block		S300-PR-2-G00-EX	951451280
Through hear amittar		Vdc - M12 Connector	Emission power regulation trimmer	S300-PR-5-G00-EX	951451290
inrough beam emitter	-	Vac - Terminal block		S300-PR-1-G00-EX	951451300
			Defogging function	S300-PR-1-G00-EX-M	951451310
Background suppression	NPN/PNP	Vdc - Terminal block	Sensitivity and D/L trimmers	S300-PR-2-M01-OC	951451140
			Timing, sensitivity and D/L trimmers	S300-PR-2-M06-OC	951451150
		Vdc - M12 Connector	Sensitivity and D/L trimmers	S300-PR-5-M01-OC	951451160
			Timing, sensitivity and D/L trimmers	S300-PR-5-M06-OC	951451170
	Relay	Vac - Terminal block	Sensitivity and D/L trimmers	S300-PR-1-M01-RX	951451180
			Timing, sensitivity and D/L trimmers	S300-PR-1-M06-RX	951451190
			Timing, sensitivity and D/L trimmers; defogging function	S300-PR-1-M06-RX-M	951451200

ACCESSORIES









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

CABLES

	DESCRIPTION		MODEL	ORDER No.
Axial M12 Connector	4-pole, grey, P.V.C.	3 m	CS-A1-02-G-03	95A251380
		5 m	CS-A1-02-G-05	95A251270
		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
		10 m	CS-A2-02-G-10	95A251260
	4-pole, P.U.R.	2 m	CS-A2-02-R-02	95A251550
		5 m	CS-A2-02-R-05	95A251570
Axial M12 Connector		3 m	CV-A1-22-B-03	95ACC1480
		5 m	CV-A1-22-B-05	95ACC1490
		10 m	CV-A1-22-B-10	95ACC1500
		15 m	CV-A1-22-B-15	95ACC2070
	4-pole, shielded, black, F.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
	(polo 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



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