

S300 PR



















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

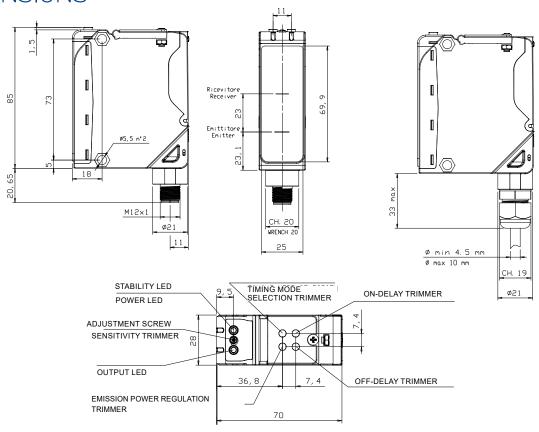
(*)DC models: ATEX II 3DG

	S300 PR		
Through beam		060 m	
Polarized retroreflective		0,122 m	
Diffuse proximity Background suppression		0,055 m	
		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	

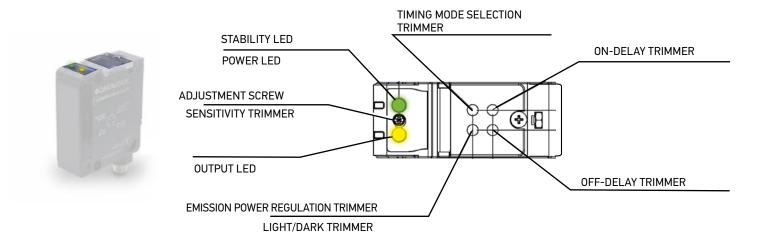
TECHNICAL DATA

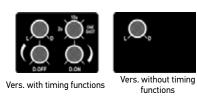
Power supply	10 30 Vdc (mod. S3002/5) 24240 Vac/2460 Vdc (mod. S3001)	
Ripple	24240 Vac/2400 Vdc (mod. 53001)	
Прис	30 mA max. (mod. S3002/5-B/C)	
C	35 mA max. (mod. S3002/5-M)	
Consumption (output current excluded)	25 mA max. (mod. S3002/5-F)	
current excludeu/	20 mA max. (mod. S3002/5-G)	
	3 VA max. (mod. S3001)	
Light 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. S300H)	
Setting	emission power regulation trimmer (mod. \$300M)	
Setting	versions with timing functions: time base selection and one shot trimmer/ON DELAY trimmer/OFF DELAY trimmer (mod.	
	versions with timing functions: time base selection and the shot timiner/on DELAY timiner/or DELAY timiner (mod. \$300x06)	
Indicators	yellow OUTPUT LED (excl. mod. S300G)	
	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)	
<u> </u>	3 A max. (mod. S3001)	
Saturation voltage	2,4 V max. 1 ms (mod. S300.,2/5-B/C/F/G)	
Response time	2 ms (mod. S3002/5-M)	
nesponse time	20 ms (mod. \$3001)	
	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 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	
Storage temperature	-40 70 °C	
Weight	140 g (mod. S3002/5), 150 g (mod. S3001)	

DIMENSIONS



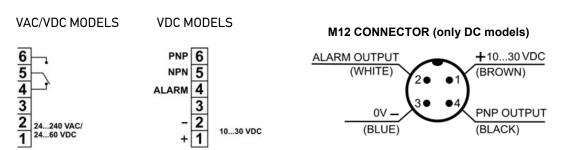
INDICATORS AND SETTINGS





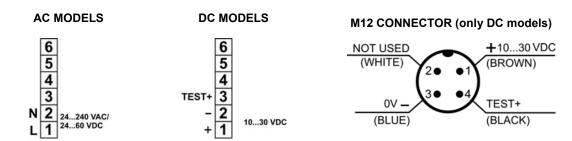
CONNECTIONS

TERMINAL BLOCK

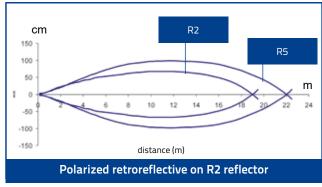


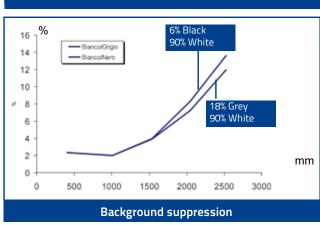
Through beam emitter

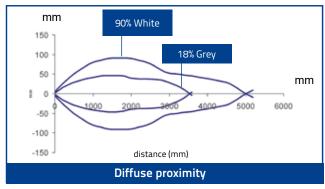
TERMINAL BLOCK

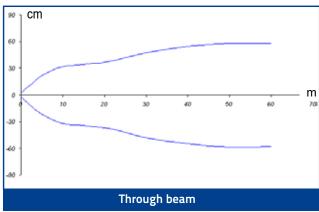


DETECTION DIAGRAMS





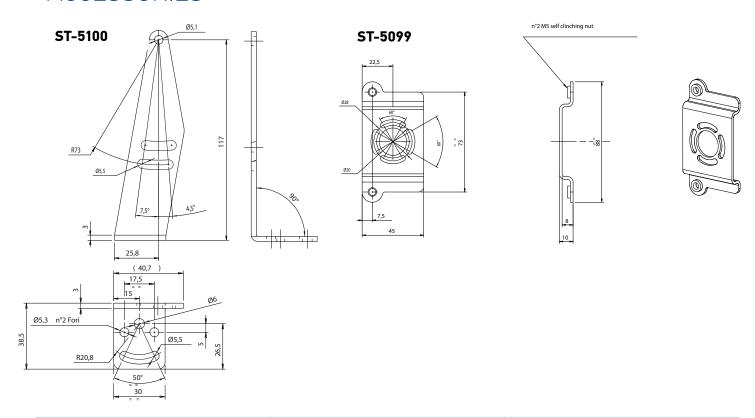




MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	OUTPUT	CONNECTION	SETTING	MODEL	
		Vdc - Terminal block	Sensitivity and D/L trimmers	S300-PR-2-B01-0C	951451000
	NIDNI/DNID	vac - Terminal block	Timing, sensitivity and D/L trimmers	S300-PR-2-B06-0C	951451010
	NPN/PNP	Vdc - M12 Connector	Sensitivity and D/L trimmers	S300-PR-5-B01-0C	951451020
Polarized retroreflective		vuc - MTZ Connector	Timing, sensitivity and D/L trimmers	S300-PR-5-B06-0C	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
		Vdc - Terminal block	Sensitivity and D/L trimmers	S300-PR-2-C01-OC	951451070
	NPN/PNP	vuc - Terminal block	Timing, sensitivity and D/L trimmers	S300-PR-2-C06-OC	951451080
	INPIN/PINP	Vdc - M12 Connector	Sensitivity and D/L trimmers	S300-PR-5-C01-OC	951451090
Diffused proximity		vuc - MTZ Connector	Timing, sensitivity and D/L trimmers	S300-PR-5-C06-OC	951451100
,			Sensitivity and D/L trimmers	S300-PR-1-C01-RX	951451110
	Relay	Vac - Terminal block	- Terminal block Timing, sensitivity and D/L trimmers		951451120
			Timing, sensitivity and D/L trimmers; defogging function	S300-PR-1-C06-RX-M	951451130
		Vdc - Terminal block	Sensitivity and D/L trimmers	S300-PR-2-F01-0C	951451210
	NPN/PNP	vac - Terminal block	Timing, sensitivity and D/L trimmers	S300-PR-2-F06-0C	951451220
	INPIN/PINP	V-l- M12 C	Sensitivity and D/L trimmers	S300-PR-5-F01-0C	951451230
Through beam receiver		Vdc - M12 Connector	Timing, sensitivity and D/L trimmers	S300-PR-5-F06-0C	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
Thursday because and their		Vdc - M12 Connector	Emission power regulation trimmer	S300-PR-5-G00-EX	951451290
Through beam emitter	-	V T		S300-PR-1-G00-EX	951451300
		Vac - Terminal block	Defogging function	S300-PR-1-G00-EX-M	06-RX 951451120 6-RX-M 951451130 01-OC 951451210 06-OC 951451220 01-OC 951451230 06-OC 951451240 01-RX 951451250 06-RX 951451260 6-RX 951451270 00-EX 951451280 00-EX 951451290 00-EX 951451300 0-EX-M 951451310 01-OC 951451140 101-OC 951451150 101-OC 951451160
	NIDNI/DNID		Sensitivity and D/L trimmers	S300-PR-2-M01-0C	951451140
		Vdc - Terminal block	Timing, sensitivity and D/L trimmers	S300-PR-2-M06-0C	951451150
	NPN/PNP	V.I. 1410.0	Sensitivity and D/L trimmers	S300-PR-5-M01-0C	951451160
Background suppression		Vdc - M12 Connector	Timing, sensitivity and D/L trimmers	S300-PR-5-M06-0C	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
		3 m	CS-A2-02-G-03	95A251360
	, , , , , , , , ,	5 m	CS-A2-02-G-05	95A251240
Radial M12 Connector	4-pole, grey, P.V.C.	7 m	CS-A2-02-G-07	95A251245
Radial M12 Connector		10 m	CS-A2-02-G-10	95A251260
	4-pole, P.U.R.	2 m	CS-A2-02-R-02	95A251550
	4-pote, P.O.R.	5 m	CS-A2-02-R-05	95A251570
	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	4-pole, shielded, black, P.V.C.	5 m	CV-A2-22-B-05	95ACC1550
	1.116.	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
	4-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