

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

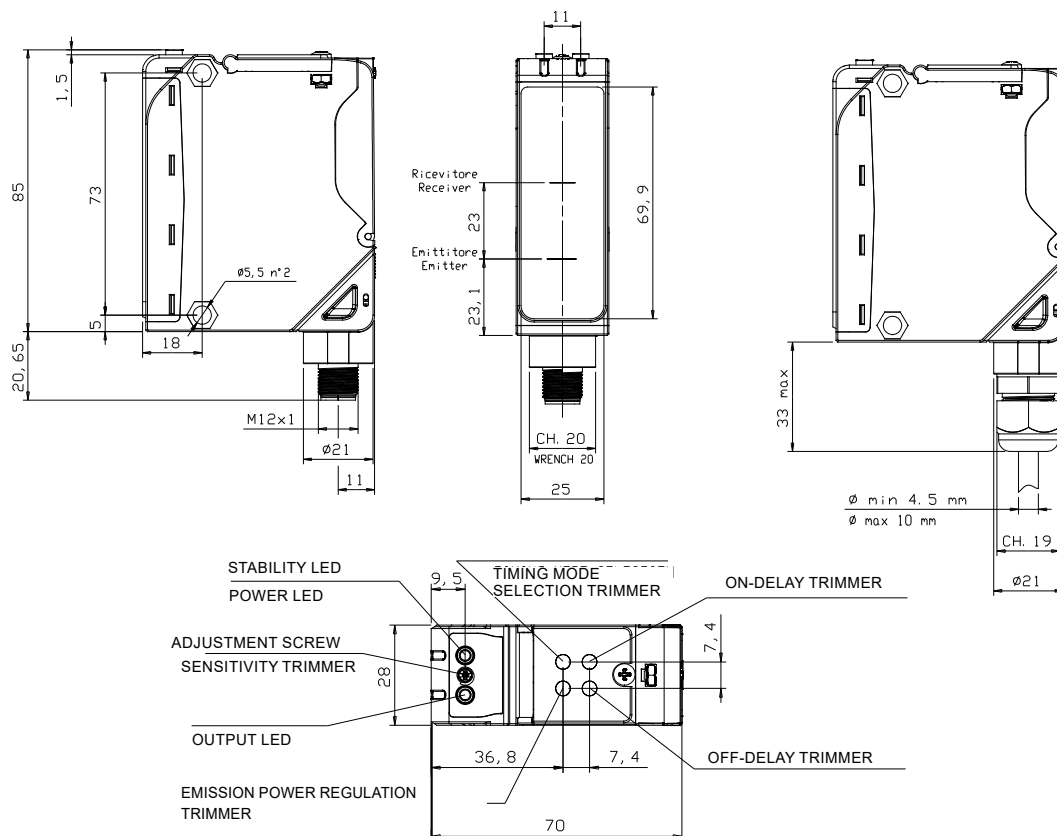
S300 PA

Through beam		0...60 m
Polarized retroreflective		0,1...22 m
Diffuse proximity		0,05...5 m
Background suppression		0,4...2,5 m
Power supply	Vdc	10...30 V
	Vac	
	Vac/dc	24...240 Vac/24...60 Vdc
Output	PNP	
	NPN	
	NPN/PNP	•
	relay	•
	other	
Connection	cable	
	connector	•
	pig-tail	
Approximate dimensions (mm)		25x100x70
Housing material		PBT
Mechanical protection		IP67

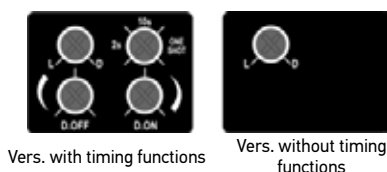
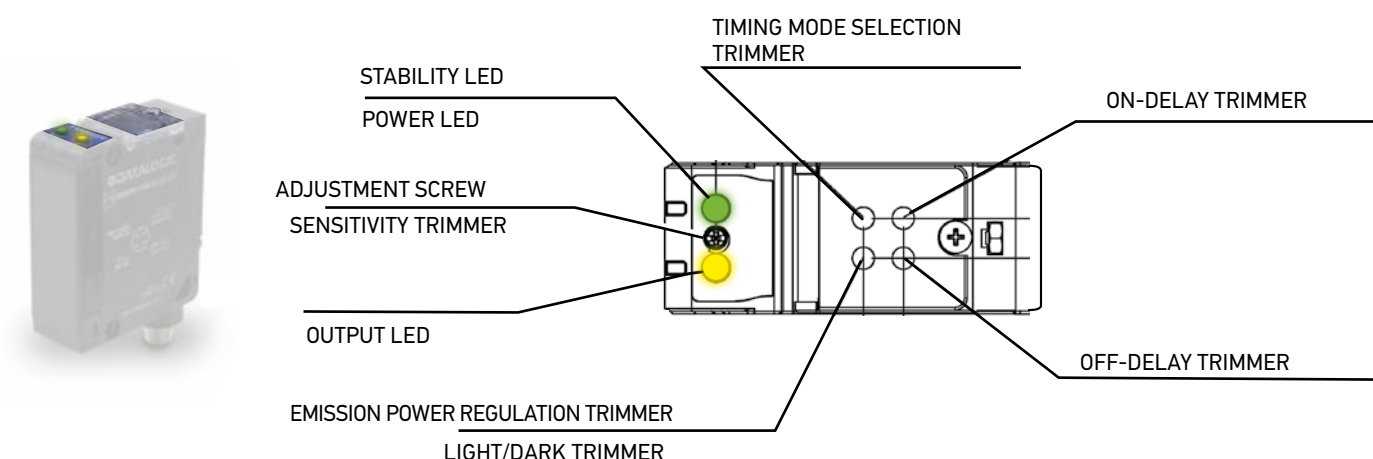
TECHNICAL DATA

Power supply	10 ... 30 Vdc (mod. S300...2/5) 24...240 Vac/24...60 Vdc (mod. S300...1)
Ripple	10% max. 30 mA max. (mod. S300...2/5-B/C) 35 mA max. (mod. S300...2/5-M) 25 mA max. (mod. S300...2/5-F) 20 mA max. (mod. S300...2/5-G) 3 VA max. (mod. S300...1) red LED 660 nm (mod. S300...B) IR LED 880 nm (mod. S300...C/G/M)
Consumption (output current excluded)	sensitivity trimmer, DARK/LIGHT trimmer (mod. S300...F/C/B) 15 turns adjustment screw/DARK/LIGHT trimmer (mod. S300...M) emission power regulation trimmer (mod. S300...G)
Light emission	versions with timing functions: time base selection and one shot trimmer/ON DELAY trimmer/OFF DELAY trimmer (mod. S300...x06)
Setting	yellow OUTPUT LED (excl. mod. S300...G) green STABILITY LED, POWER LED (mod. S300...G)
Indicators	PNP or NPN open collector (mod. S300...2/5); Electromechanical SPDT 250 Vac/30 Vdc (mod. S300...1)
Output	100 mA (mod. S300...2/5) 3 A max. (mod. S300...1)
Output current	2,4 V max.
Saturation voltage	1 ms (mod. S300...2/5-B/C/F/G) 2 ms (mod. S300...2/5-M) 20 ms (mod. S300...1)
Response time	500 Hz (mod. S300...2/5-B/C/F/G) 250 Hz (mod. S300...2/5-M) 25 Hz (mod. S300...1)
Switching frequency	terminal block, M12 4-pole connector (only DC mod.)
Connection	500 Vac, 1 min between electronics and housing
Dielectric strength	>20 MΩ, 500 Vdc between electronics and housing
Insulating resistance	class 2 (mod. S300...2/5)
Electrical protection	IP67 (IEC/EN60529)/cable gland EN50262
Mechanical protection	according to EN 60947-5-2
Ambient light rejection	0,5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)
Vibrations	11 ms (30 G) 6 shock for every axis (EN60068-2-27)
Shock resistance	PBT 30% glass fiber-reinforced
Housing material	frontal window and lens in PC
Lens material	-40 ... 55 °C
Operating temperature	-40 ... 70 °C
Storage temperature	
Weight	140 g (mod. S300...2/5), 150 g (mod. S300...1)

DIMENSIONS



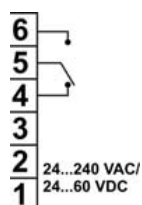
INDICATORS AND SETTINGS



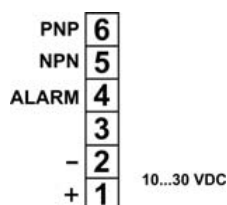
CONNECTIONS

TERMINAL BLOCK

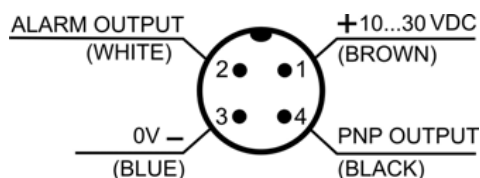
VAC/VDC MODELS



VDC MODELS



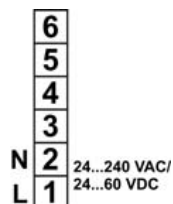
M12 CONNECTOR (only DC models)



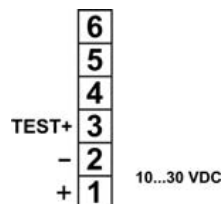
Through beam emitter

TERMINAL BLOCK

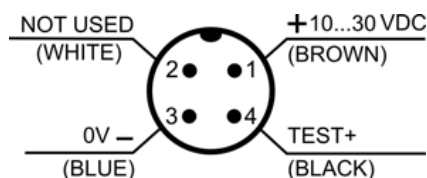
AC MODELS



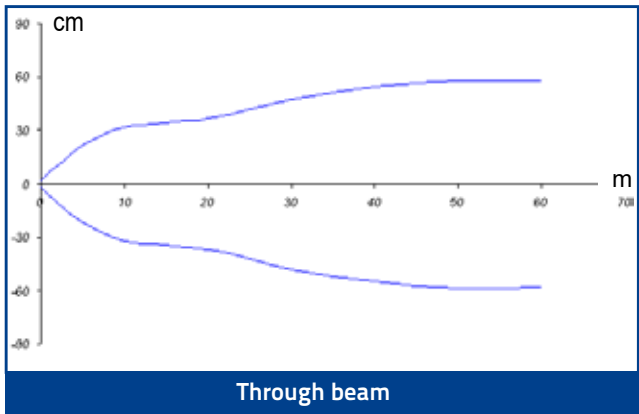
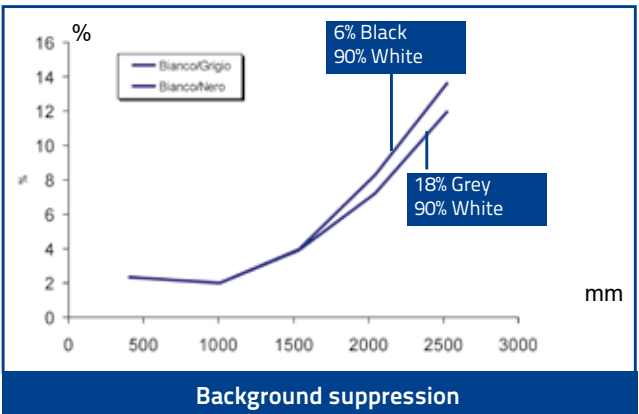
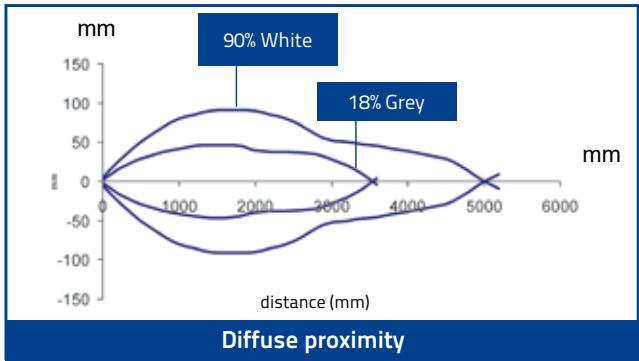
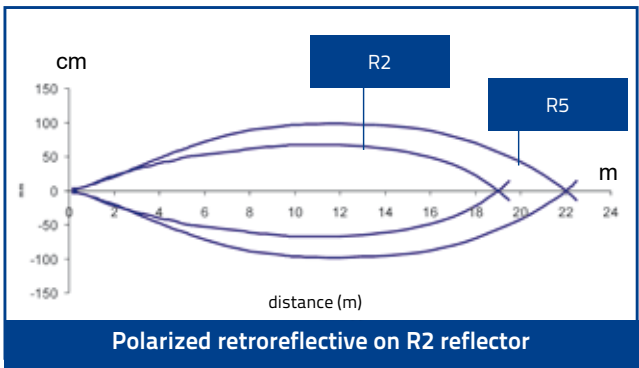
DC MODELS



M12 CONNECTOR (only DC models)



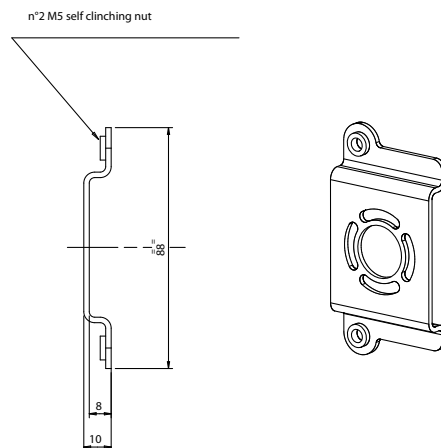
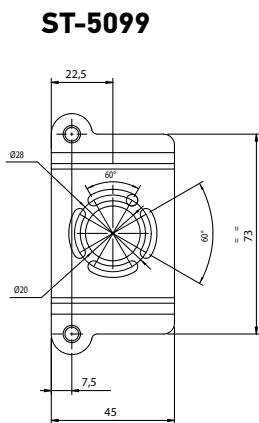
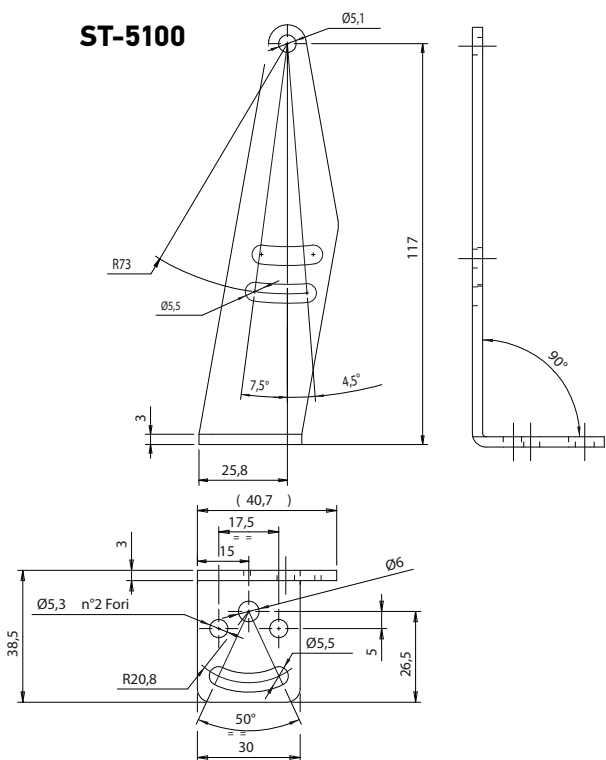
DETECTION DIAGRAMS



MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	OUTPUT	CONNECTION	SETTING	MODEL	ORDER NO.
Polarized retroreflective	NPN/PNP	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
		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
Diffused proximity	NPN/PNP	Vdc - Terminal block	Timing, sensitivity and D/L trimmers; defogging function	S300-PR-1-B06-RX-M	951451060
			Sensitivity and D/L trimmers	S300-PR-2-C01-OC	951451070
		Vdc - M12 Connector	Timing, sensitivity and D/L trimmers	S300-PR-2-C06-OC	951451080
			Sensitivity and D/L trimmers	S300-PR-5-C01-OC	951451090
	Relay	Vac - Terminal block	Timing, sensitivity and D/L trimmers	S300-PR-5-C06-OC	951451100
			Sensitivity and D/L trimmers	S300-PR-1-C01-RX	951451110
Through beam receiver	NPN/PNP	Vdc - Terminal block	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
		Vdc - M12 Connector	Sensitivity and D/L trimmers	S300-PR-2-F01-OC	951451210
			Timing, sensitivity and D/L trimmers	S300-PR-2-F06-OC	951451220
	Relay	Vac - Terminal block	Sensitivity and D/L trimmers	S300-PR-5-F01-OC	951451230
			Timing, sensitivity and D/L trimmers	S300-PR-5-F06-OC	951451240
Through beam emitter	-	Vdc - 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
		Vdc - M12 Connector	Timing, sensitivity and D/L trimmers; defogging function	S300-PR-1-F06-RX-M	951451270
			Sensitivity and D/L trimmers	S300-PR-2-G00-EX	951451280
	-	Vac - Terminal block	Emission power regulation trimmer	S300-PR-5-G00-EX	951451290
				S300-PR-1-G00-EX	951451300
Background suppression	NPN/PNP	Vdc - Terminal block	Defogging function	S300-PR-1-G00-EX-M	951451310
			Sensitivity and D/L trimmers	S300-PR-2-M01-OC	951451140
		Vdc - M12 Connector	Timing, sensitivity and D/L trimmers	S300-PR-2-M06-OC	951451150
			Sensitivity and D/L trimmers	S300-PR-5-M01-OC	951451160
	Relay	Vac - Terminal block	Timing, sensitivity and D/L trimmers	S300-PR-5-M06-OC	951451170
			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

TYPE	DESCRIPTION	LENGTH	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
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
	4-pole, P.U.R.	2 m	CS-A2-02-R-02	95A251550
		5 m	CS-A2-02-R-05	95A251570
Axial M12 Connector	4-pole, shielded, black, P.V.C.	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
		25 m	CV-A1-22-B-25	95ACC2090
Radial M12 Connector	4-pole, shielded, black, P.V.C.	3 m	CV-A2-22-B-03	95ACC1540
		5 m	CV-A2-22-B-05	95ACC1550
		10 m	CV-A2-22-B-10	95ACC1560
Axial M12 Connector	4-pole, U.L., black, P.V.C.	3 m	CS-A1-02-U-03	95ASE1120
		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



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