S300 PA

ODATALOGIC



















Advanced MAXI photoelectric multivoltage sensors

- Industrial plastic housing with IP67 mechanical protection
- Timing function from 0.6-16 s ON delay, OFF delay and ONE SHOT
- Terminal block for both Vdc and Vac/ Vdc free voltage
- Distance trimmer for mechanical background suppression models

APPLICATIONS

- Packaging end of line, palletizers
- Outdoor or indoor gates control
- Manufacturing plants

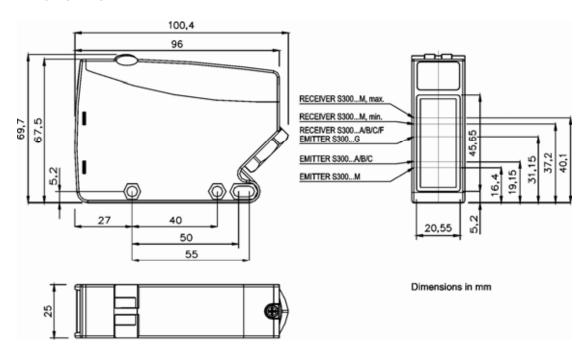
(*)DC models: ATEXII 3DG

Through beam 050 m Retroreflective (on R2 reflector) 0,115 m Polarized retroreflective 0,110 m Diffuse proximity 0,052 m Background suppression Vdc 1230 V Power supply Vac 24240 Vac/2460 Vdc PNP NPN Output NPN/PNP • relay • other cable Connection e Diffuse proximate dimensions (mm) E5x100x70 Housing material PBT Mechanical protection Mechanical protection PIF IP67			ALEXIIODO	
Retroreflective (on R2 reflector) 0,115 m Polarized retroreflective 0,110 m Diffuse proximity 0,052 m Background suppression Vdc 1230 V Power supply Vac 22 m Vac/dc 24240 Vac/2460 Vdc 24240 Vac/2460 Vdc PNP NPN 1 NPN/PNP • 1 relay • • other • • connection • • Approximate dimensions (mm) Connector • Housing material PBT PBT		S300 PA		
Polarized retroreflective 0,110 m Diffuse proximity 0,052 m Background suppression 0,22 m Power supply Vdc 1230 V Vac Vac 24240 Vac/2460 Vdc PNP NPN NPN NPN/PNP • • relay • • other cable • Connection • • Approximate dimensions (mm) ✓ 25x100x70 Housing material PBT	Through beam	050 m		
Diffuse proximity 0,052 m Background suppression 0,22 m Power supply Vdc 1230 V Vac Vac/dc 24240 Vac/2460 Vdc PNP NPN NPN NPN/PNP • relay • other cable • Connection cable • Approximate dimensions (mm) 25x100x70 Housing material PBT	Retroreflective (on R2 reflector)		0,115 m	
Background suppression 0,22 m Power supply Vdc 1230 V Vac Vac/dc 24240 Vac/2460 Vdc PNP NPN NPN/PNP • relay • other cable connection cable Approximate dimensions (mm) 25x100x70 Housing material PBT			0,110 m	
Background suppression 0,22 m Power supply Vdc 1230 V Vac Vac/dc 24240 Vac/2460 Vdc PNP NPN NPN/PNP • relay • other cable connection cable Approximate dimensions (mm) 25x100x70 Housing material PBT			0,052 m	
Power supply Vdc 1230 V Vac Vac Vac/dc 24240 Vac/2460 Vdc PNP NPN NPN/PNP • relay • other • cable • connection • Approximate dimensions (mm) ± Housing material PBT			0,22 m	
Vac/dc 24240 Vac/2460 Vdc PNP PNP NPN NPN/PNP relay • other cable connection • Approximate dimensions (mm) 25x100x70 Housing material PBT	· · ·	Vdc	1230 V	
Vac/dc 24240 Vac/2460 Vdc PNP PNP NPN NPN/PNP relay • other cable connection • Approximate dimensions (mm) 25x100x70 Housing material PBT		Vac		
Output NPN NPN/PNP • relay • • other cable connection • Connection incompany • Approximate dimensions (mm) 25x100x70 Housing material PBT		Vac/dc	24240 Vac/2460 Vdc	
Output NPN/PNP • relay • other cable connection • Approximate dimensions (mm) connector Housing material 25x100x70 PBT		PNP		
relay • other • cable connection connector • pig-tail 25x100x70 Housing material PBT		NPN		
Connection other Connection cable connector • pig-tail 25x100x70 Housing material PBT	Output	NPN/PNP	•	
Connection cable connector pig-tail • Approximate dimensions (mm) 25x100x70 Housing material PBT	•	relay	•	
Connection connector pig-tail • Approximate dimensions (mm) 25x100x70 Housing material PBT		other		
pig-tail Approximate dimensions (mm) Housing material pig-tail 25x100x70 PBT	Connection	cable		
Approximate dimensions (mm)25x100x70Housing materialPBT		connector	•	
Housing material PBT		pig-tail		
	Approximate dimensions (mm)		25x100x70	
Mechanical protection IP67	Housing material		PBT	
	Mechanical protection		IP67	

TECHNICAL DATA

Power supply	12 30 Vdc (mod. S3002) 24240 Vac/2460 Vdc (mod. S3001)		
Ripple	10% max.		
Consumption (output current excluded)	35 mA max. (mod. S3002) 3 VA max. (mod. S3001)		
Light emission	red LED 660 nm (mod. S300B) IR LED 940 nm (mod. S300C) IR LED 880 nm (mod. S300A/G/M)		
Setting	sensitivity trimmer (mod. S300A/B/C/F), DARK/LIGHT dip-switch (mod. S300A/B/C/F/M) 7-turns distance adjustment trimmer (mod. S300M) dip-switch mode ON delay/OFF delay/ON-OFF delay/single pulse (ONE-SHOT) (mod. S300x06) timing trimmer (mod. S300x06)		
Indicators	yellow OUTPUT LED (excl. mod. S300G) green STABILITY LED, POWER LED (mod. S300G)		
Output	PNP or NPN open collector (mod. S3002); electromechanical SPDT 250 Vac/30 Vdc (mod. S3001)		
Output current	100 mA (mod. S3002) 3 A max. (mod. S3001)		
Saturation voltage	2,4 V max.		
Response time	1 ms (mod. S3002-A/B/C/M) 2 ms (mod. S3002-F/G) 25 ms (mod. S3001)		
Switching frequency	500 Hz (mod. S3002-A/B/C/M) 250 Hz (mod. S3002-F/G) 20 Hz max. (mod. S3001)		
Connection	terminal block		
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)		
Mechanical protection	IP67 (IEC/EN60529)		
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	-25 55 °C		
Storage temperature	-25 70 °C		
Weight	120 g (mod. S3002), 130 g (mod. S3001)		

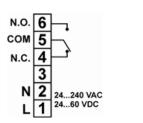
DIMENSIONS

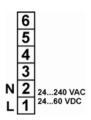


CONNECTIONS

VAC MODELS

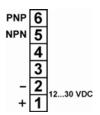
Through beam emitter

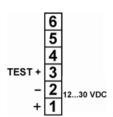




VDC MODELS

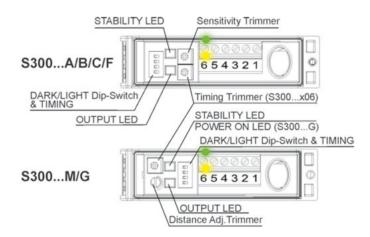
Through beam emitter





INDICATORS AND SETTINGS

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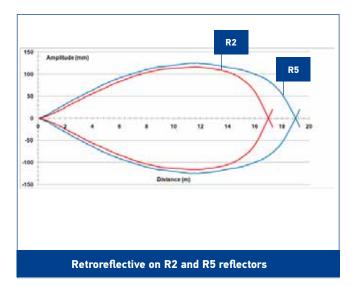


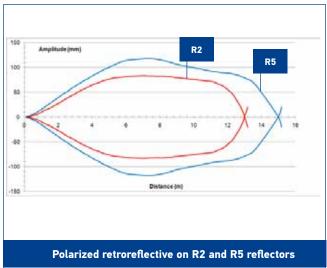
SETTINGS

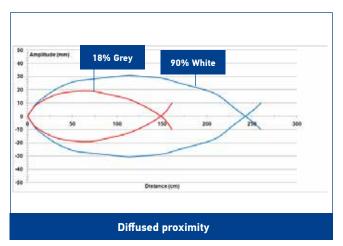
The **M** model presents a **multiturn adjustment screw** for the adjustment of the background suppression distance using a mechanical variation of the optic triangulation angle. The **other models have a mono-turn electronic trimmer** that adjusts the sensitivity and the sensor operating distance. The operating distance can be increased by rotating the screws clockwise.

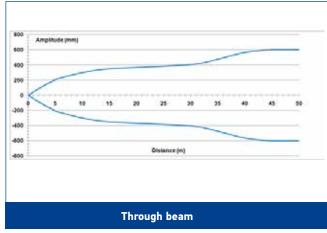
Trimmers can be used to adjust the output activation and deactivation delay time whilst functioning mode selection is performed through DIP SWITCHES.

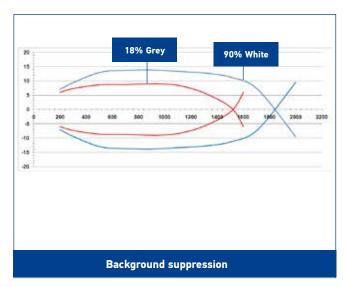
DETECTION DIAGRAMS











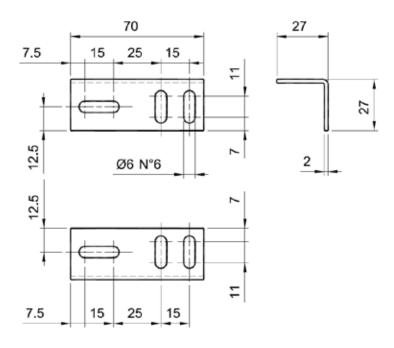


MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	POWER SUPPLY		SETTING	MODEL	ORDER No.
Retroreflective (IR LED 880 nm)	1230 Vdc	NPN/PNP	Sensitivity trimmer and D/L dip-switch	S300-PA-2-A01-OC	951451500
			Timing and sensitivity trimmers, D/L dip-switch	S300-PA-2-A06-OC	951451510
	24240 Vac/2460 Vdc	Relay	Sensitivity trimmer and D/L dip-switch	S300-PA-1-A01-RX	951451480
			Timing and sensitivity trimmers, D/L dip-switch	S300-PA-1-A06-RX	951451490
	1230 Vdc	NPN/PNP	Sensitivity trimmer and D/L dip-switch	S300-PA-2-B01-OC	951451540
Polarized retroreflective			Timing and sensitivity trimmers, D/L dip-switch	S300-PA-2-B06-OC	951451550
(red LED 660 nm)	24240 Vac/2460 Vdc	Relay	Sensitivity trimmer and D/L dip-switch	S300-PA-1-B01-RX	951451520
			Timing and sensitivity trimmers, D/L dip-switch	S300-PA-1-B06-RX	951451530
Diffused proximity (IR LED 940 nm)	1230 Vdc	NPN/PNP	Sensitivity trimmer D/L dip-switch	S300-PA-2-C01-OC	951451420
			Timing and sensitivity trimmers, D/L dip-switch	S300-PA-2-C06-OC	951451430
	24240 Vac/2460 Vdc	Relay	Sensitivity trimmer and D/L dip-switch	S300-PA-1-C01-RX	951451400
			Timing and sensitivity trimmers, D/L dip-switch	S300-PA-1-C06-RX	951451410
Through beam receiver 24.	1230 Vdc	NPN/PNP	Sensitivity trimmer and D/L dip-switch	S300-PA-2-F01-OC	951451600
			Timing and sensitivity trimmers, D/L dip-switch	S300-PA-2-F06-OC	951451610
	24240 Vac/2460 Vdc	Relay	Sensitivity trimmer and D/L dip-switch	S300-PA-1-F01-RX	951451580
			Timing and sensitivity trimmers, D/L dip-switch	S300-PA-1-F06-RX	951451590
Through beam emitter (IR LED 880 nm)	1230 Vdc		-	S300-PA-2-G00-EX	951451570
	24240 Vac/2460 Vdc			S300-PA-1-G00-EX	951451560
Background suppression (IR LED 880 nm)	1230 Vdc	NPN/PNP	7-turns distance adjustment trimmer and /L dip-switch	S300-PA-2-M01-0C	951451460
			Timing and 7-turns distance adj. trimmers, D/L dip-switch	S300-PA-2-M06-0C	951451470
	24240 Vac/2460 Vdc	Relay	7-turns distance adjustment trimmer and D/L dip-switch	S300-PA-1-M01-RX	951451440
			Timing and 7-turns distance adj. trimmers, D/L dip-switch	S300-PA-1-M06-RX	951451450

ACCESSORIES

ST-511



MODEL	DESCRIPTION	ORDER No.
ST-511	mounting bracket	95ACC2810