

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

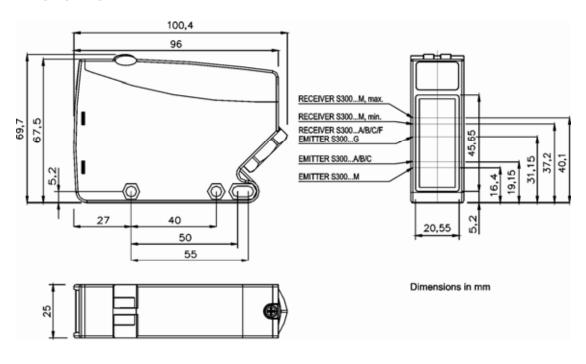
(*)DC models: ATEX **I** 3DG

	S300 PA	
Through beam	050 m	
Retroreflective (on R2 reflector)	0,115 m	
Polarized retroreflective	0,110 m	
Diffuse proximity	0,052 m	
Background suppression	0,22 m	
Power supply	Vdc	1230 V
	Vac	
	Vac/dc	24240 Vac/2460 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

12 30 Vdc (mod. S3002) 24240 Vac/2460 Vdc (mod. S3001)		
10% max.		
35 mA max. (mod. S3002) 3 VA max. (mod. S3001)		
red LED 660 nm (mod. S300B) IR LED 940 nm (mod. S300C) IR LED 880 nm (mod. S300A/G/M)		
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)		
yellow OUTPUT LED (excl. mod. S300G) green STABILITY LED, POWER LED (mod. S300G)		
PNP or NPN open collector (mod. S3002); electromechanical SPDT 250 Vac/30 Vdc (mod. S3001)		
100 mA (mod. S3002) 3 A max. (mod. S3001)		
2,4 V max.		
1 ms (mod. S3002-A/B/C/M) 2 ms (mod. S3002-F/G) 25 ms (mod. S3001)		
500 Hz (mod. S3002-A/B/C/M) 250 Hz (mod. S3002-F/G) 20 Hz max. (mod. S3001)		
terminal block		
500 Vac, 1 min between electronics and housing		
>20 MΩ, 500 Vdc between electronics and housing		
class 2 (mod. S3002)		
IP67 (IEC/EN60529)		
according to EN 60947-5-2		
0,5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6)		
11 ms (30 G) 6 shock for every axis (EN60068-2-27)		
PBT 30% glass fiber-reinforced		
frontal window and lens in PC		
-25 55 °C		
-25 70 °C 120 g (mod. S3002), 130 g (mod. S3001)		

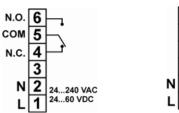
DIMENSIONS

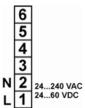


CONNECTIONS

VAC MODELS

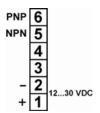
Through beam emitter

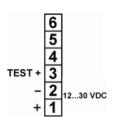




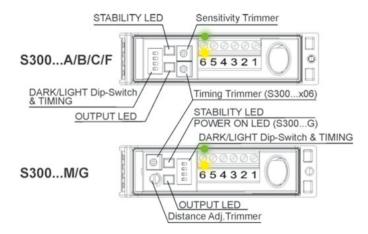
VDC MODELS

Through beam emitter





INDICATORS AND SETTINGS

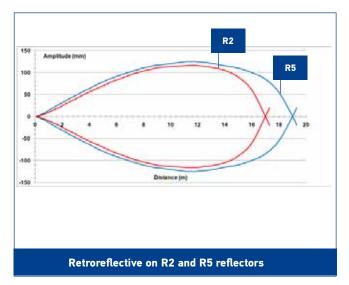


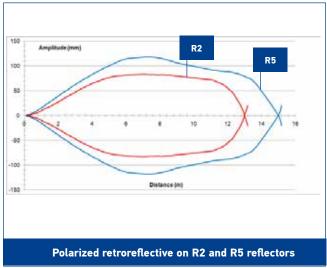
Settings

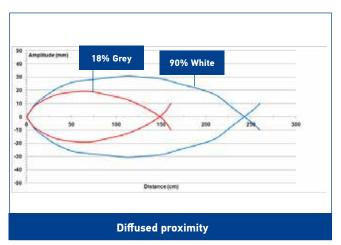
The M model presents a multiturn adjustment screw for the adjustment of the background suppression distance using a mechanical variation of the optic triangulation angle. The other models have a mono-turn electronic trimmer that adjusts the sensitivity and the sensor operating distance. The operating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

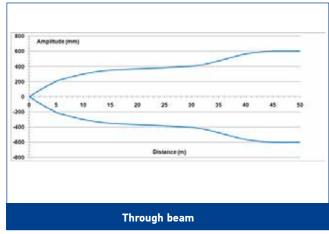
Trimmers can be used to adjust the output activation and deactivation delay time whilst functioning mode selection is performed through DIP SWITCHES.

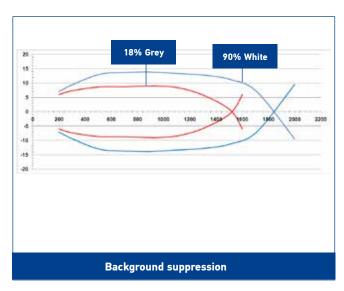
DETECTION DIAGRAMS

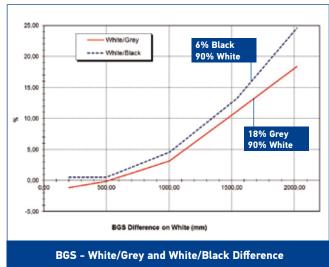








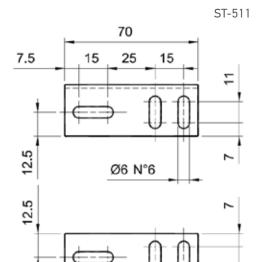


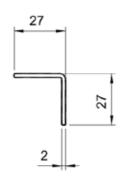


MODEL SELECTION AND ORDER INFORMATION

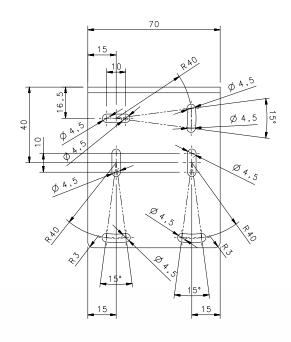
OPTIC FUNCTION	POWER SUPPLY	OUTPUT	SETTING	MODEL	ORDER No.
Retroreflective (IR LED 880 nm)	1230 Vdc	NPN/ PNP	Sensitivity trimmer and D/L dip-switch	S300-PA-2-A01-OC	951451500
			Timing and sensitivity trimmers, D/L dip-switch	S300-PA-2-A06-OC	951451510
	24240 Vac/2460 Vdc	Relay	Sensitivity trimmer and D/L dip-switch	S300-PA-1-A01-RX	951451480
			Timing and sensitivity trimmers, D/L dip-switch	S300-PA-1-A06-RX	951451490
Polarized retroreflective (red LED 660 nm)	1230 Vdc	NPN/ PNP	Sensitivity trimmer and D/L dip-switch	S300-PA-2-B01-0C	951451540
			Timing and sensitivity trimmers, D/L dip-switch	S300-PA-2-B06-OC	951451550
	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	1230 Vdc	NPN/ PNP	Sensitivity trimmer and D/L dip-switch	S300-PA-2-F01-0C	951451600
			Timing and sensitivity trimmers, D/L dip-switch	S300-PA-2-F06-0C	951451610
	0/ 0/01/ /0/ /01/	Relay	Sensitivity trimmer and D/L dip-switch	S300-PA-1-F01-RX	951451580
	24240 Vac/2460 Vdc		Timing and sensitivity trimmers, D/L dip-switch	S300-PA-1-F06-RX	951451590
Through beam emitter (IR LED 880 nm) 24	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-OC	951451460
			Timing and 7-turns distance adj. trimmers, D/L dip-switch	S300-PA-2-M06-OC	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

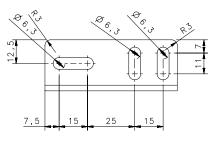
ACCESSORIES

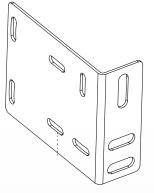


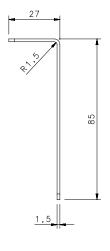


ST-S300-PA









MODEL	DESCRIPTION	ORDER No.
ST-511	mounting bracket	95ACC2810
ST-S300-PA	mounting bracket	95ACC7870

DATALOGIC PRODUCT OFFERING















Stationary Industrial Scanners

Safety Light Curtains

Sensors

Hand Held scanners

Mobile Computers

Laser Marking Systems

Safety Laser Scanner

Vision Systems