MAXI SENSORS TO ELECTRIC

DATALOGIC

S300 PA

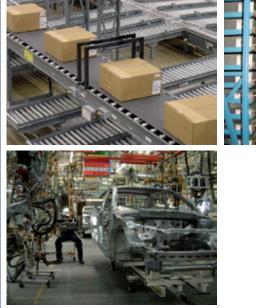
The S300 PA series of advanced MAXI photoelectric sensors represents the most suitable solution for standard applications thanks to it's excellent cost/performance ratio. The new series offers a wide range of models and functions in order to guarantee easy use and installation. The new series presents 5 different models with through beam optical function up to 50m, retroreflex up to 15m, polarized retroreflex up to 10m, diffused proximity at 2m and background suppression at 2m. All the models are available both Vdc from 12 to 30V and Vac/Vdc free-voltage from 24 to 240V versions. A timing function version with both the **SPDT** relay or the bipolar transistor NPN/PNP open collector outputs is offered. The terminal block connection simplifies and speeds-up the installation procedure, whereas the heavy-duty plastic housing guarantees excellent resistance under harsh use conditions.



HIGHLIGHTS

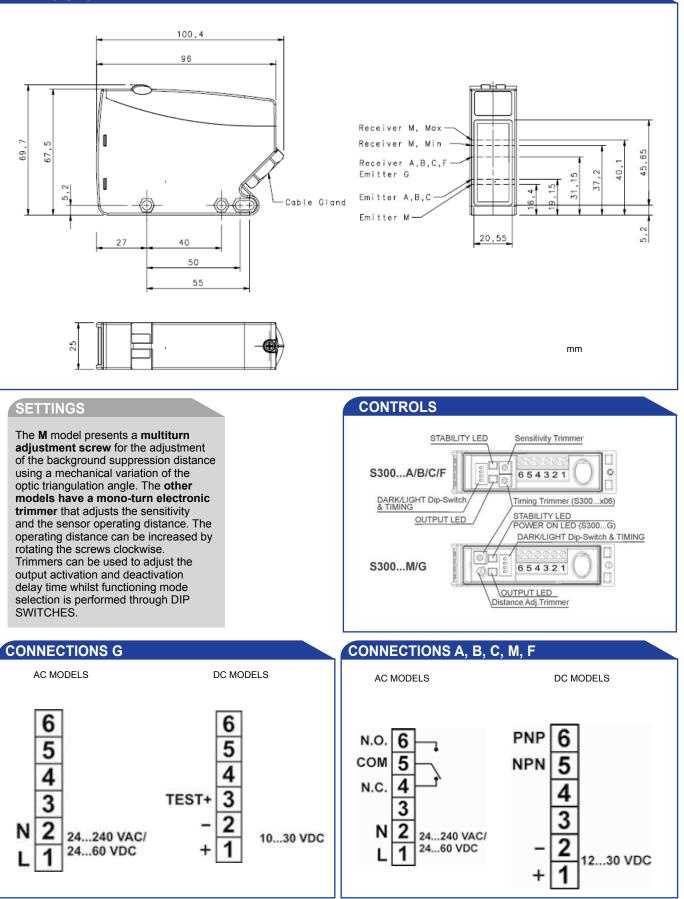
- Excellent optical performances
- Sturdy plastic housing with **IP67** mechanical protection
- Wide range of operating temperatures ranging from -25 to 55°C
- Timing function from 0.6-16 s ONdelay, OFF delay ONE SHOT
- Terminal block for both Vdc and Vac/Vdc free voltage versions
- Distance trimmer clutch for mechanical background suppression models

APPLICATIONS





DIMENSIONS



DATALOGIC

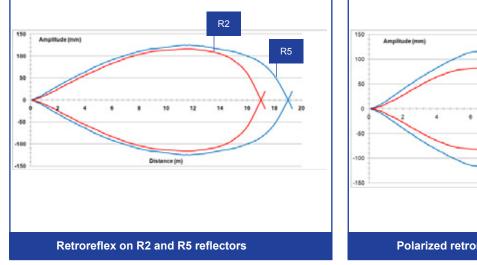
COMMON DATA	S300-A	S300-B	S300-C	S300-M	S300-F	S300-G	
Emission type	IR LED (880nm)	Red LED (660nm)	IR LED (940nm)	IR LED (880nm)		IR LED (880nm)	
Operating distances (typical values)	0.115m	0.110m				.50m	
0-#1	Mono-turn sensitivity trimmer 7-turns adjustment Screw Mono-turn sensitivity trimm						
Setting	DARK/LIGHT Dip switch Dip-switch mode ON delay / OFF delay / ON-OFF delay / Single pulse (ONE-SHOT) (S300x06)						
Time Delay Range (timing vers.)		0.616	6 s (adjustment by T	rimmer)			
White/Black difference (90% / 4%)		< 2	5%				
Indicators	OUTPUT LED (yellow) STABILITY LED (green)				POWER ON LE (green)		
Operating temperature	-2555°C						
Storage temperature	-2570°C						
Dielectric strength	1500Vac 1 min between electronics and housing						
Insulating resistance	>20MΩ 500Vdc between electronics and housing				sing		
Ambient light rejection	according to EN 60947-5-2						
Vibrations	0.5mm width, 10 55Hz, for each axis (EN60068-2-6) 11ms (30G) 6 shocks for each axis (EN60068-2-27) PBT (30% fibre-reinforced glass)				8-2-6)		
Shock resistance							
Housing material							
Lens material	PC						
Mechanical protection	IP67 (IEC / EN60529) / NEMA TYPE 1 (For UL / c-UL)						
Connections	Terminal block (recommended cable diameter between 8 and 10mm)						
AC VOLTAGE MODELS	S300-A	S300-B	S30	0-C	S300-M	S300-F/G	
Power supply	Ripple 10% max Consumption 31/0						
Ripple							
Consumption (output current excluded)							

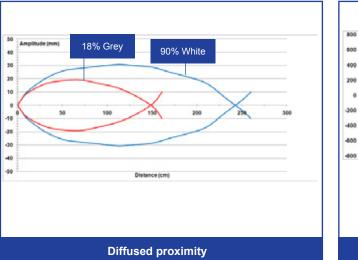
< 3VA			
SPDT electromagnetic relay 250Vac, 30Vdc			
3A (resistive load)			
25ms max			
20Hz			
130g			
-			

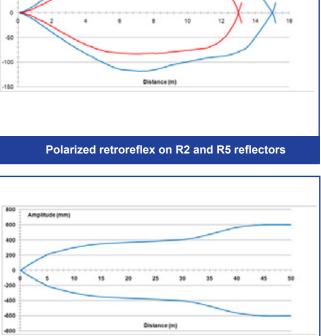
DC VOLTAGE MODELS	S300-A	S300-B	S300-C	S300-M	S300-F/G
Power supply	1230Vdc				
Ripple	10% max				
Consumption (output current excluded)	PNP and NPN open collector 100mA (resistive load)				
Outputs					
Output current					
Output saturation voltage					
Response time					2ms max
Switching frequency					250Hz
Weight					

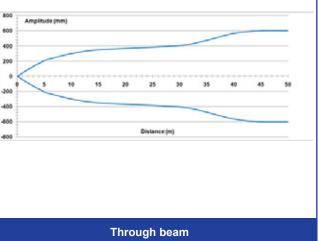


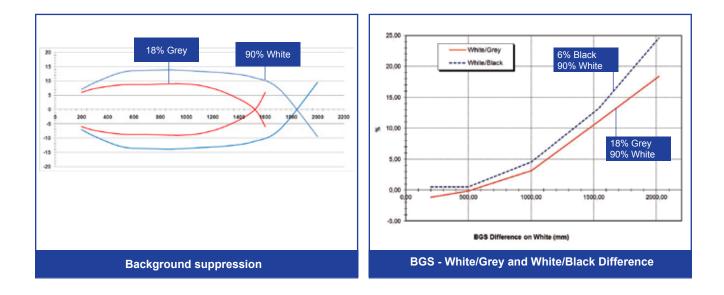
DETECTION DIAGRAMS











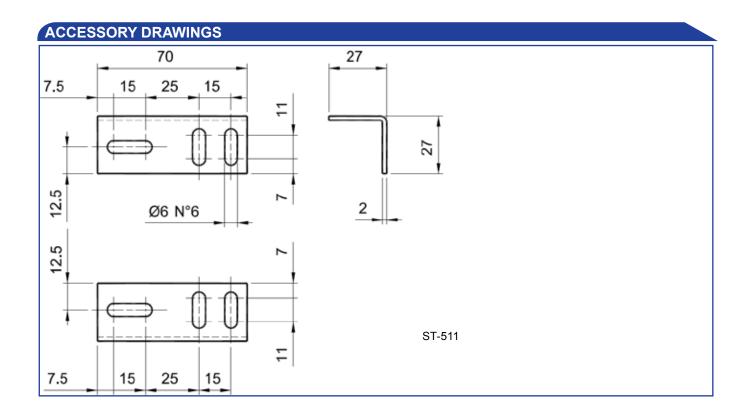
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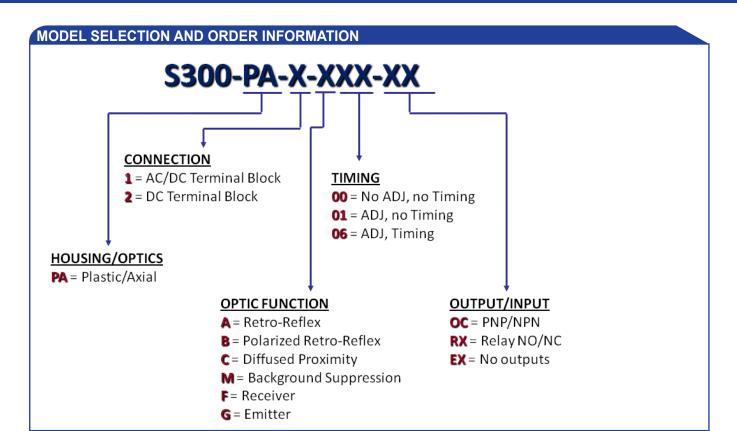
TIMING FUNCTION DIAGRAM

Five se functior	re selectable timing functions: one shot, ON delay, OFF delay, ON/OFF delay and normal mode. Trimmer adjustment of the actions is available. The timing functions can be particularly useful in applications where the output signal pulse has to be modified.							
	OPERATIVE MODE		DIP-SWITCH POSITION			ON	LIGHT INPUT	
			ON 1 2 3 4				Received	
		\$300M	\$300A/B/C/F	1	2	3	4	OUPUIS
			Normal	ON	OFF	OFF	OFF	
		TIME	ON delay	ON	ON	OFF	OFF	on
	LIGHT		Single pulse (one-shot)	ON	OFF	ON	OFF	on
			OFF delay	ON	OFF	OFF	ON	
			ON/OFF delay	ON	ON	OFF	ON	
			Normal	OFF	OFF	OFF	OFF	
		TIME	ON delay	OFF	ON	OFF	OFF	
	DARK		Single pulse (one-shot)	OFF	OFF	ON	OFF	on i i i i i i i i i i i i i i i i i i i
			OFF delay	OFF	OFF	OFF	ON	
			ON/OFF delay	OFF	ON	OFF	ON	on

ACCESSORY SELECTION AND ORDER INFORMATION

MODEL	DESCRIPTION	ORDER N°
ST-511	S2 FIXING BRACKET	95ACC2810





ORDER NO.	MODEL	DESCRIPTION
951451480	S300-PA-1-A01-RX	RRX 24-240VAC/VDC
951451490	S300-PA-1-A06-RX	RRX 24-240VAC/VDC TIMER
951451500	S300-PA-2-A01-OC	RRX 12-30VDC
951451510	S300-PA-2-A06-OC	RRX 12-30VDC TIMER
951451520	S300-PA-1-B01-RX	POL 24-240VAC/VDC
951451530	S300-PA-1-B06-RX	POL 24-240VAC/VDC TIMER
951451540	S300-PA-2-B01-OC	POL 12-30VDC
951451550	S300-PA-2-B06-OC	POL 12-30VDC TIMER
951451400	S300-PA-1-C01-RX	DIFF 24-240VAC/VDC
951451410	S300-PA-1-C06-RX	DIFF 24-240VAC/VDC TIMER
951451420	S300-PA-2-C01-OC	DIFF 12-30VDC
951451430	S300-PA-2-C06-OC	DIFF 12-30VDC TIMER
951451440	S300-PA-1-M01-RX	BGS 24-240VAC/VDC
951451450	S300-PA-1-M06-RX	BGS 24-240VAC/VDC TIMER
951451460	S300-PA-2-M01-OC	BGS 12-30VDC
951451470	S300-PA-2-M06-OC	BGS 12-30VDC TIMER
951451560	S300-PA-1-G00-EX	EMITTER 24-240VAC/VDC
951451570	S300-PA-2-G00-EX	EMITTER 12-30VDC
951451580	S300-PA-1-F01-RX	REC 24-240VAC/VDC
951451590	S300-PA-1-F06-RX	REC 24-240VAC/VDC TIMER
951451600	S300-PA-2-F01-OC	REC 12-30VDC
951451610	S300-PA-2-F06-OC	REC 12-30VDC TIMER

The company endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use, the company can guarantee only the data indicated in the instruction manual supplied with the products.





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