## MAXI SENSORS OELECTRIC

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DATALOGIC AUTOMATION

#### 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.

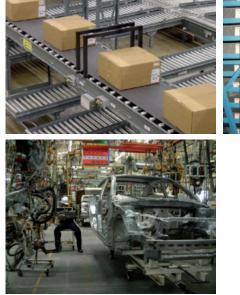


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#### HIGHLIGHTS

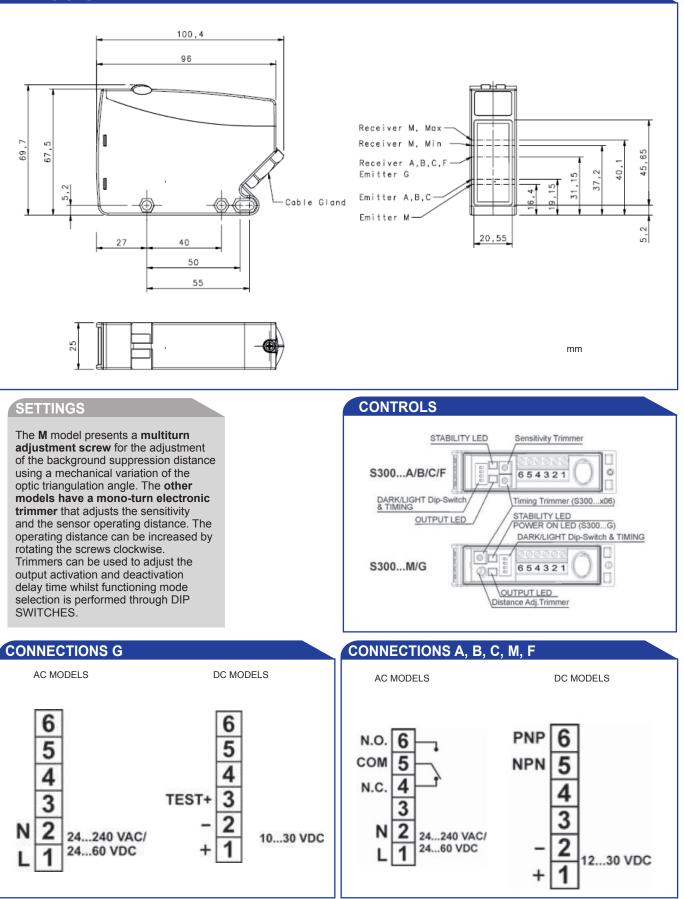
- Excellent optical performances
- Sturdy plastic housing with **IP67** mechanical protection
- Wide range of operating temperatures ranging from -25 to 55°C
- Timing function from 0.6-16 s ONdelay, OFF delay ONE SHOT
- Terminal block for both Vdc and Vac/Vdc free voltage versions
- Distance trimmer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

#### APPLICATIONS





#### DIMENSIONS



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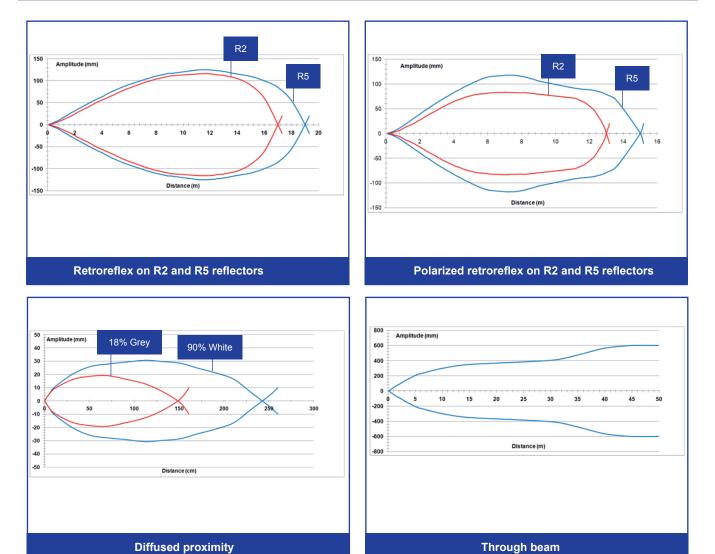
DATALOGIC AUTOMATION

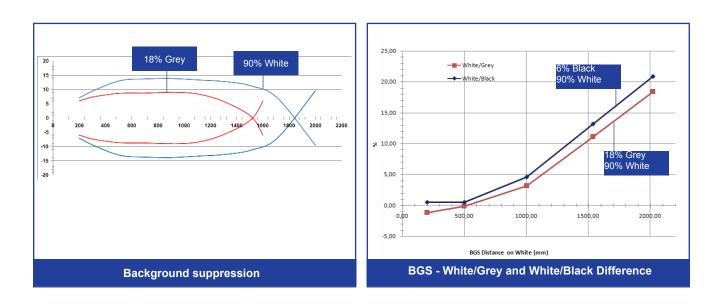
COMMON DATA	S300-A	S300-B	S300-C	S300-M	S300-F	S300-G		
Emission type:	IR LED (880nm)	Red LED (660nm)	IR LED (940nm)	IR LED (880nm)		IR LED (880nm)		
Operating distances (typical values):	0.115m	0.110m	5200cm	20200cm	0	50m		
0.11	Mor	nsitivity trimmer						
Setting:	DARK/LIGHT Dip switch Dip-switch mode ON delay / OFF delay / ON-OFF delay / Single pulse (ONE-SHOT) (S300x06)							
Time Delay Range (timing vers.):		0.61	6 s (adjustment by T	rimmer)				
White/Black difference (90% / 4%)		< 1	5%					
Indicators:	OUTPUT LED (yellow) POWER O STABILITY LED (green) (greer							
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							
Ambient light rejection:	according to EN 60947-5-2							
Vibrations:	0.5mm width, 10 55Hz, for each axis (EN60068-2-6)							
Shock resistance:	11ms (30G) 6 shocks for each axis (EN60068-2-27)							
Housing material:	PBT (30% fibre-reinforced glass)							
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	00-C	S300-M	S300-F/G		
Power supply:	24240Vac / 2460Vdc							
Ripple:	10% max							
Consumption (output current excluded):	< 3VA							
Outputs:	SPDT electromagnetic relay: 250Vac, 30Vdc							
Output current:	3A (resistive load)							
Response time:	25ms max							
Switching frequency:	20Hz							
Weight:	130g							
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DC VOLTAGE MODELS	S300-A	S300-B	\$30	00-C	S300-M	S300-F/G		

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Power supply:	1230Vdc					
Ripple:	10% max					
Consumption (output current excluded):	< 35mA					
Outputs:	PNP and NPN open collector					
Output current:	100mA (resistive load)					
Output saturation voltage:	< 2.4V max					
Response time:	1ms max 2				2ms max	
Switching frequency:	500Hz 250Hz					
Weight:	120gr					



#### **DETECTION DIAGRAMS**



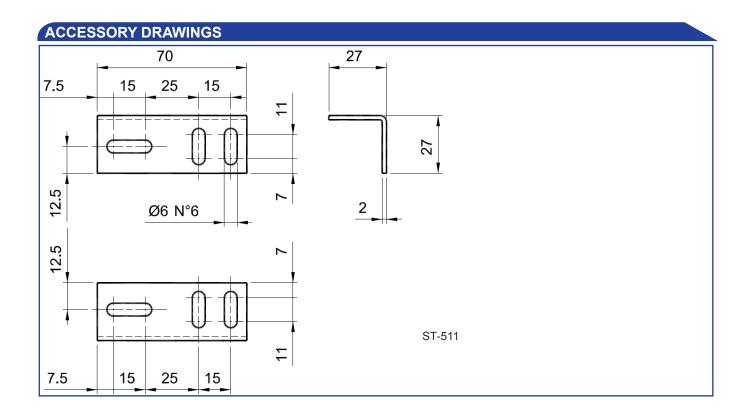


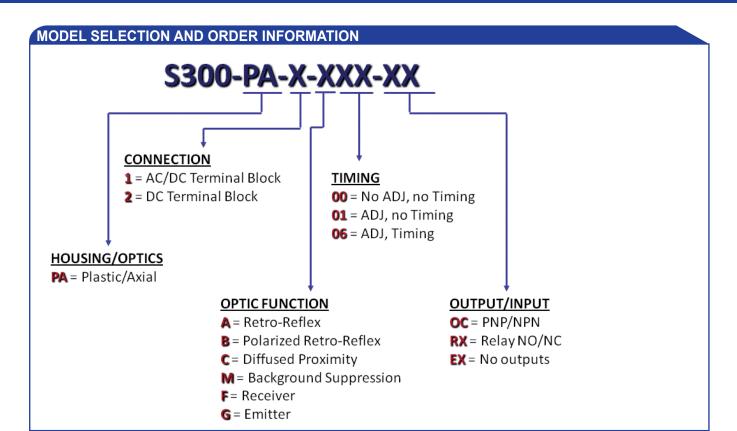
#### TIMING FUNCTION DIAGRAM

	OPERATIVE MODE		DIP-SWITCH POSITION				LIGHT INPUT
						Received Not received	
	S300M S300A/B/C/F		1	2	3	4	OUTPUTS
		Normal	ON	OFF	OFF	OFF	
	TIME	ON delay	ON	ON	OFF	OFF	
LIGHT	0	Single pulse (one-shot)	ON	OFF	ON	OFF	on · T · L · _ · T · L · · T · L
		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	°n <u>↓ · · · · · · · · · · · · · · · · · · </u>
DARK		Single pulse (one-shot)	OFF	OFF	ON	OFF	。 。 。 " ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
		OFF delay	OFF	OFF	OFF	ON	on , T ,
		ON/OFF delay	OFF	ON	OFF	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.



