

**TECHNICAL DATA**

COMMON DATA	S300-B	S300-C	S300-M	S300-F	S300-G
Emission type:	Red LED	IR LED	IR LED		IR LED
Operating distances (typical values):	22m	5m	2.5m	60m	
Setting:	Mono-turn sensitivity trimmers		Multi-turn adjustment screw	Mono-turn sensitivity trimmers	
White/Black difference (90% / 4%)	< 15%				
Indicators:	OUTPUT LED (yellow) STABILITY LED (green)			OUTPUT LED (yellow) STABILITY LED (green)	POWER ON LED (green)
Operating temperature:	-40...55°C				
Storage temperature:	-40...70°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-B	S300-C	S300-M	S300-F/G
Power supply:	24...240Vac / 12...240Vdc			
Ripple:	10% max			
Consumption (output current excluded):	< 3VA			
Outputs:	SPDT electromagnetic relay: 250Vac, 30Vdc			
Output current:	3A (resistive load)			
Response time:	20ms max			
Switching frequency:	25Hz			
Weight:	150g			

DC MODELS	S300-B	S300-C	S300-M	S300-F/G
Power supply:	12...240Vdc			
Ripple:	10% max			
Consumption (output current excluded):	< 30mA			F= < 25mA G= < 20mA
Outputs:	PNP and NPN open collector			
Output current:	100mA (resistive load)			
Output saturation voltage:	2.4V max			
Response time:	1ms max		2ms max	1ms max
Switching frequency:	500Hz		250Hz	500Hz
Weight:	140gr			



## TIMING FUNCTION DIAGRAM

Four selectable **timing functions**: one shot, ON delay, OFF delay and normal mode. **Trimmer adjustment** of the functions is available. The timing functions can be particularly useful in applications where the output signal pulse has to be modified.

OPERATION MODE	OUTPUTS
Normal (timing disable)	
ONE SHOT (only with short time base 0...2 sec.)	
ON/OFF Delay	
ON Delay	
OFF Delay	

## DETECTION DIAGRAMS

