

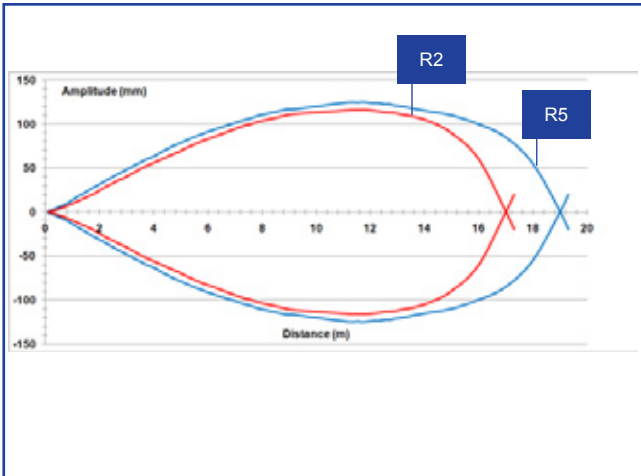
## TECHNICAL DATA

COMMON DATA	S300-A	S300-B	S300-C	S300-M	S300-F	S300-G
<b>Emission type</b>	IR LED (880nm)	Red LED (660nm)	IR LED (940nm)	IR LED (880nm)		IR LED (880nm)
<b>Operating distances (typical values)</b>	0.1...15m	0.1...10m	5...200cm	20...200cm	0...50m	
<b>Setting</b>	Mono-turn sensitivity trimmer			7-turns adjustment screw	Mono-turn sensitivity trimmer	
	DARK/LIGHT Dip switch Dip-switch mode ON delay / OFF delay / ON-OFF delay / Single pulse (ONE-SHOT) (S300...x06)					
<b>Time Delay Range (timing vers.)</b>	0.6...16 s (adjustment by Trimmer)					
<b>White/Black difference (90% / 4%)</b>	< 25%					
<b>Indicators</b>	OUTPUT LED (yellow) STABILITY LED (green)					POWER ON LED (green)
<b>Operating temperature</b>	-25...55°C					
<b>Storage temperature</b>	-25...70°C					
<b>Dielectric strength</b>	1500Vac 1 min between electronics and housing					
<b>Insulating resistance</b>	>20MΩ 500Vdc between electronics and housing					
<b>Ambient light rejection</b>	according to EN 60947-5-2					
<b>Vibrations</b>	0.5mm width, 10 ... 55Hz, for each axis (EN60068-2-6)					
<b>Shock resistance</b>	11ms (30G) 6 shocks for each axis (EN60068-2-27)					
<b>Housing material</b>	PBT (30% fibre-reinforced glass)					
<b>Lens material</b>	PC					
<b>Mechanical protection</b>	IP67 (IEC / EN60529) / NEMA TYPE 1 (For UL / c-UL)					
<b>Connections</b>	Terminal block (recommended cable diameter between 8 and 10mm)					

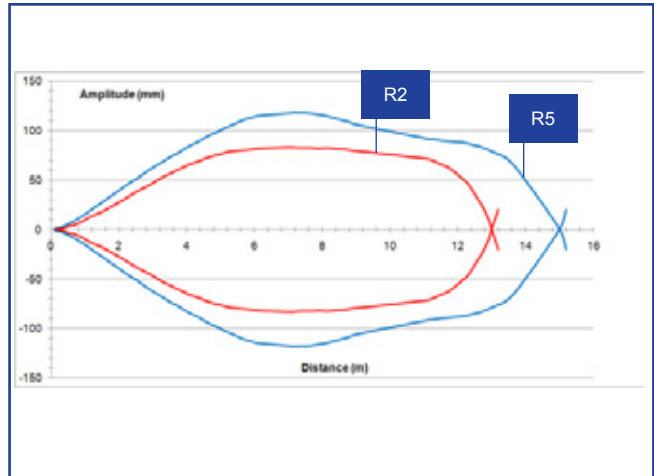
AC VOLTAGE MODELS	S300-A	S300-B	S300-C	S300-M	S300-F/G
<b>Power supply</b>	24...240Vac / 24...60Vdc				
<b>Ripple</b>	10% max				
<b>Consumption (output current excluded)</b>	< 3VA				
<b>Outputs</b>	SPDT electromagnetic relay 250Vac, 30Vdc				
<b>Output current</b>	3A (resistive load)				
<b>Response time</b>	25ms max				
<b>Switching frequency</b>	20Hz				
<b>Weight</b>	130g				

DC VOLTAGE MODELS	S300-A	S300-B	S300-C	S300-M	S300-F/G
<b>Power supply</b>	12...30Vdc				
<b>Ripple</b>	10% max				
<b>Consumption (output current excluded)</b>	< 35mA				
<b>Outputs</b>	PNP and NPN open collector				
<b>Output current</b>	100mA (resistive load)				
<b>Output saturation voltage</b>	< 2.4V max				
<b>Response time</b>	1ms max				2ms max
<b>Switching frequency</b>	500Hz				250Hz
<b>Weight</b>	120g				

## DETECTION DIAGRAMS



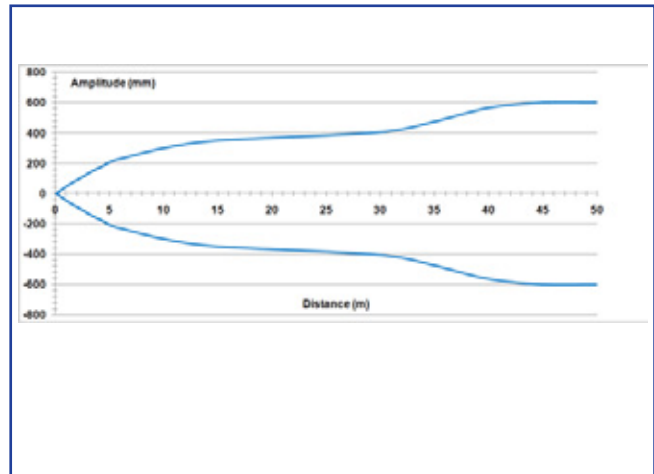
Retroreflex on R2 and R5 reflectors



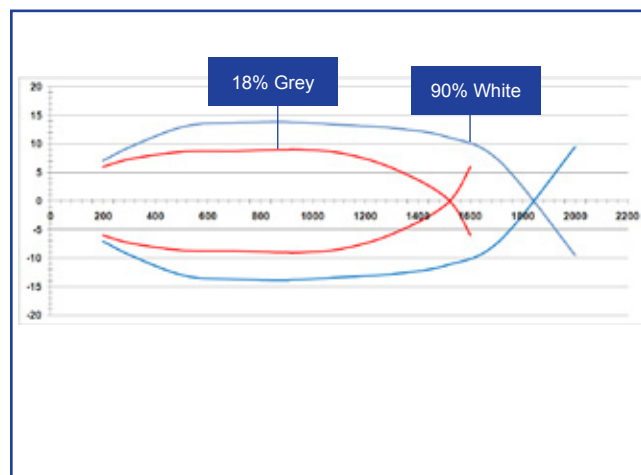
Polarized retroreflex on R2 and R5 reflectors



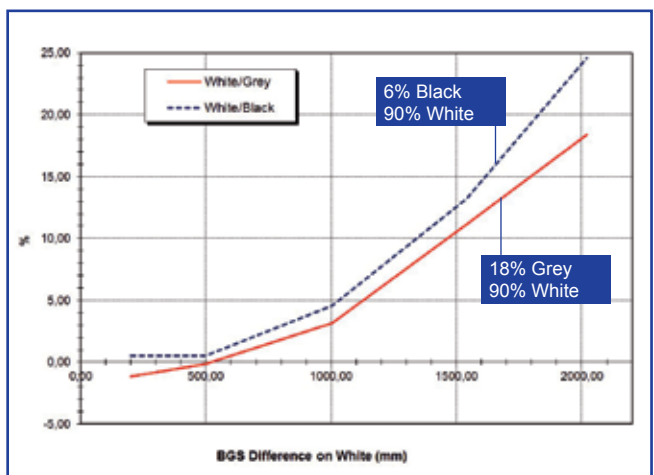
Diffused proximity



Through beam



Background suppression



BGS - White/Grey and White/Black Difference