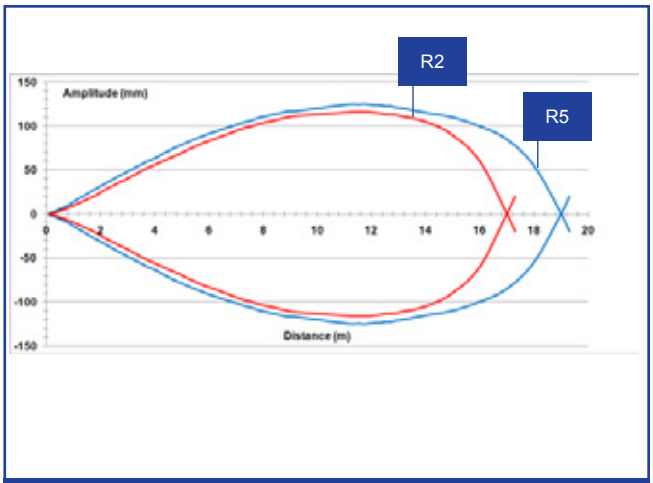
TECHNICAL DATA

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)	0.1...15m	0.1...10m	5...200cm	20...200cm	0...50m	
Setting	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)					
Time Delay Range (timing vers.)	0.6…16 s (adjustment by Trimmer)					
White/Black difference (90% / 4%)	< 25%					
Indicators	OUTPUT LED (yellow) STABILITY LED (green)					POWER ON LED (green)
Operating temperature	-25…55°C					
Storage temperature	-25…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)					

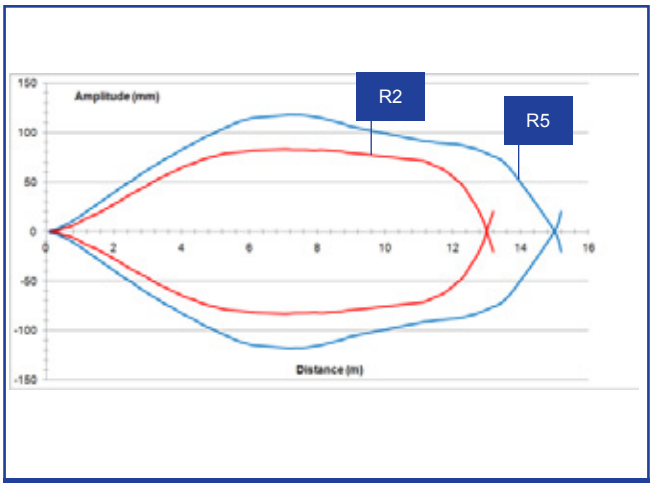
AC VOLTAGE MODELS	S300-A	S300-B	S300-C	S300-M	S300-F/G
Power supply	24…240Vac / 24…60Vdc				
Ripple	10% max				
Consumption (output current excluded)	< 3VA				
Outputs	SPDT electromagnetic relay 250Vac, 30Vdc				
Output current	3A (resistive load)				
Response time	25ms max				
Switching frequency	20Hz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

DC VOLTAGE MODELS	S300-A	S300-B	S300-C	S300-M	S300-F/G
Power supply	12…30Vdc				
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				2ms max
Switching frequency	500Hz				250Hz
Weight	120gr				

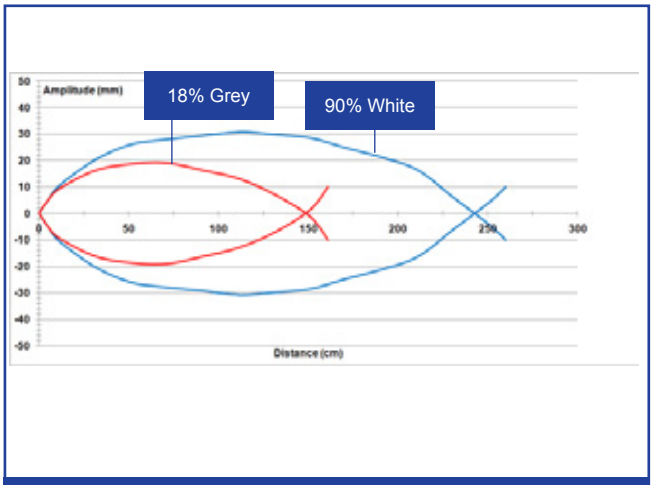
DETECTION DIAGRAMS



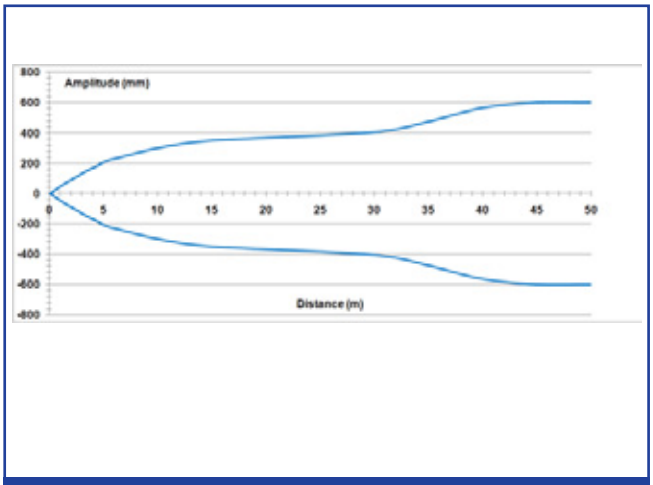
Retroreflex on R2 and R5 reflectors



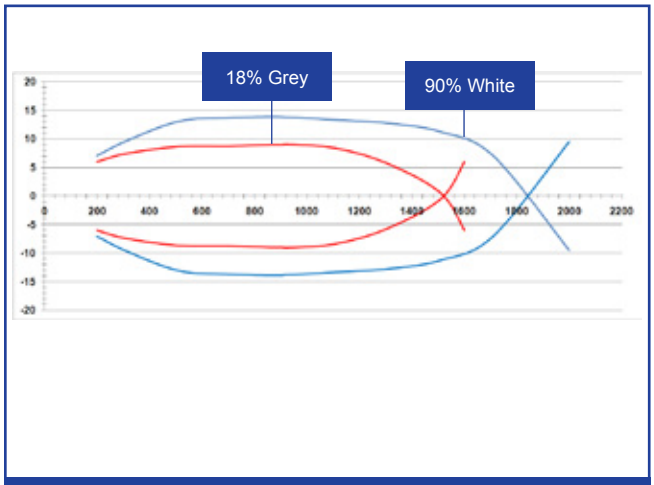
Polarized retroreflex on R2 and R5 reflectors



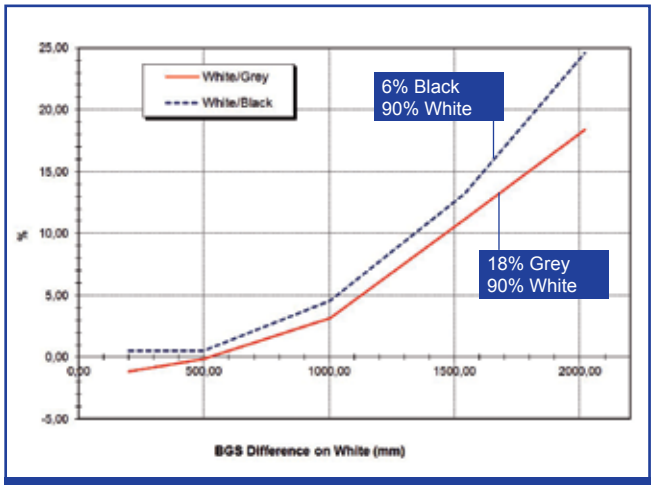
Diffused proximity



Through beam



Background suppression



BGS - White/Grey and White/Black Difference