

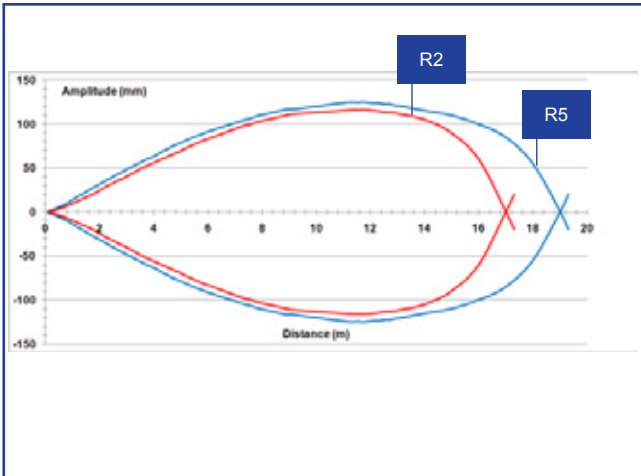
TECHNICAL DATA

| 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) | | | | | |

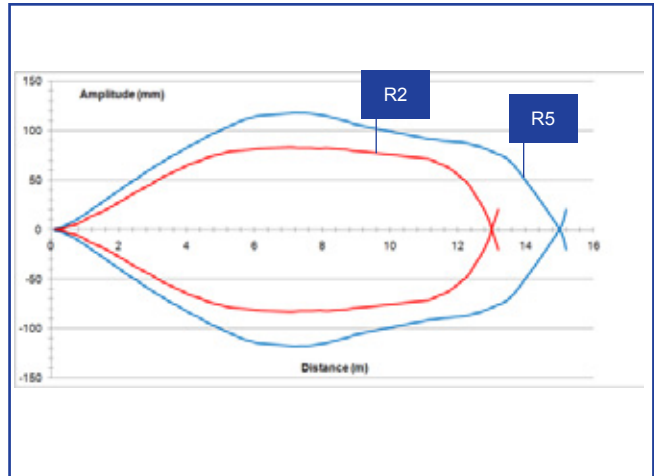
| AC VOLTAGE MODELS | S300-A | S300-B | S300-C | S300-M | S300-F/G |
|---------------------------------------|--|--------|--------|--------|----------|
| Power supply | 24...240Vac / 24...60Vdc | | | | |
| Ripple | 10% max | | | | |
| Consumption (output current excluded) | < 3VA | | | | |
| Outputs | 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 | 120g | | | | |

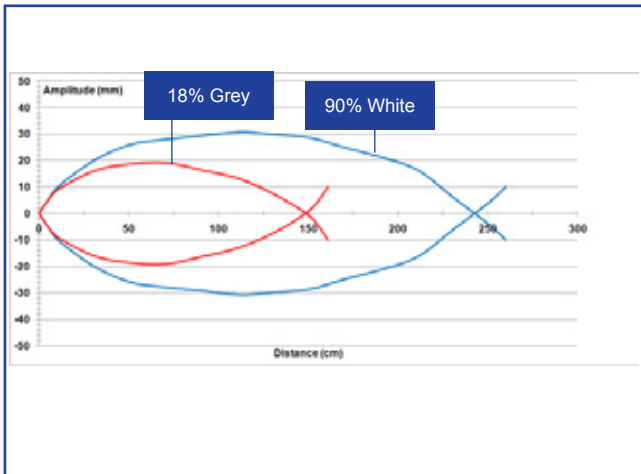
DETECTION DIAGRAMS



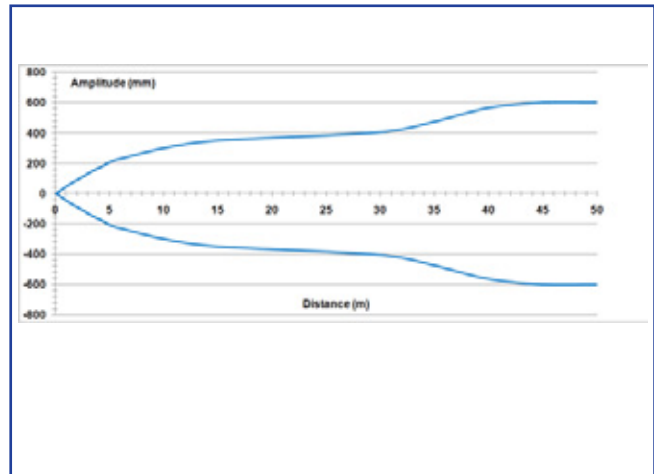
Retroreflex on R2 and R5 reflectors



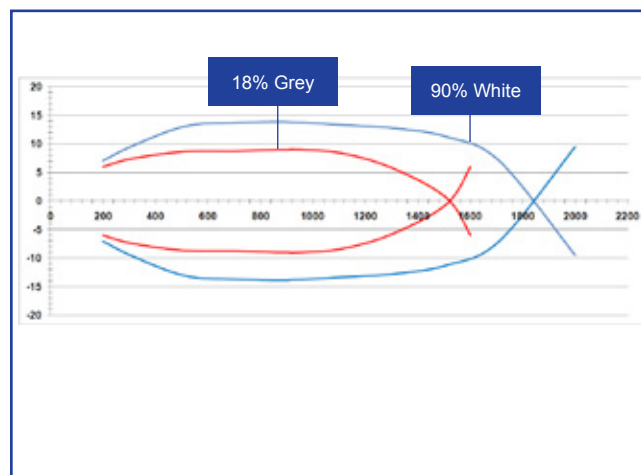
Polarized retroreflex on R2 and R5 reflectors



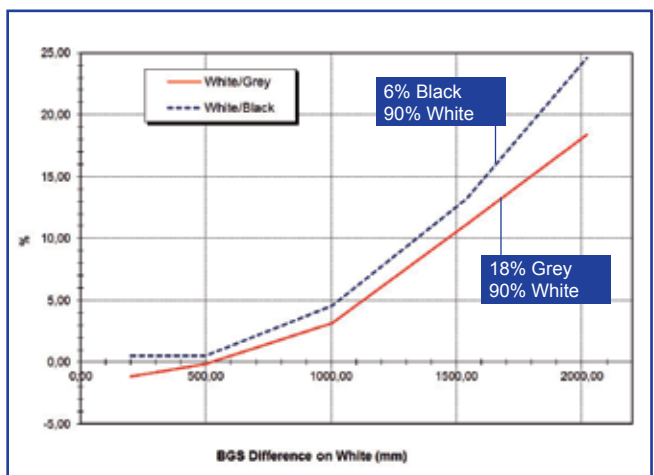
Diffused proximity



Through beam



Background suppression



BGS - White/Grey and White/Black Difference