

TECHNICAL DATASHEET

IRG-509

ACTIVE INFRARED SENSOR, 1 to 10-BEAMS

IR Global is the exclusive manufacturer of the original EAG GERMANY active infrared detection system including engineering, installation, and maintenance support.

	Features
	The active infrared sensor system is designed to operate indoor and outdoor. IRG-509 is a VDS class C approved system. This technology offers a proven track record and maybe employed in challenging applications unmatched by other sensor technologies. The scientifically developed optics and electronics guaranty maximum performance and system longevity.
	Multiple beam options, scalable to customer needs. Insusceptible to sunlight or other light sources and changes in temperature. Integrates to existing or new security systems
	Detects following intrusion types: Vehicles, walks, runs, run/jump, crawls
	Each lens has an active diameter of 20 millimeters. The alarm is only trigger if the lens is 98.5% covered. Low Nuisance and False Alarm Rate (NAR / FAR)
	Sensor can be quickly & easily aligned, using an advanced adjustment device IRG-100-A-L
	Multiple beams can be installed together in the same security tower
	Mean time to replace (MTTR) < 30 minutes; minimal maintenance required

Technical Specifications		
Part Number	IRG-509-xx(E) xx = numbers of beams, E = Optional Heater Element	
Dimensions	Height 20 cm to 200 cm; Width 40 mm; Depth 40 mm	
Optic Diameter	20 mm, adjustable 25° horizontal and 12° vertical	
Optic Beam Qty / Optic Spacing	One to Ten / 170 mm	
IR Beam	890 nm, pulse-code modulated	
Detection Pattern	Height 200 mm to 2000 mm; Width 20 mm; Length External 70 m average weather condition; Internal 90 m	
Alarm Contact	Dry contact relay output; max rating 60V / 0.2A	
Alarm Trigger Delay	25 -500 ms	
Alarm Signal Length	1.5 seconds	
Alarm Outputs	Tamper alarm; Intrusion alarm (only receiver sensor)	
Detection Performance	Greater than 99.8%	
Power Supply	Max 36 VDC or 25 VAC; Heater element (2 W) need separate 24 VDC supply	
Power Consumption	10 mA to 100 mA (sensor only)	
Operating Temperature	Internal use + 10° C to 74°; External with heater element -30° C to 75° C	
Environmental Rating	IP65	
EMC / EMI	Protected	
Weight	0.75 kg to 6 kg	

TDS-IRG-509_rev02