

## IPID® - Infrared Perimeter Intrusion Detection

The IPID system provides a dependable security barrier of pulsed infrared beams to create multiple detection zones with a range of up to 1000 feet. Our solid state electronics are not affected by environmental conditions such as birds, small animals, snow, puddles, leaves, grass or mechanical vibrations. It works in rain, snow and fog, instantly identifying the intrusion zone via normally open or closed dry contacts that can be interfaced with any annunciator or data communication system. IPID does not false alarm. The system will only alarm if an object breaks the 3.54" diameter beam more than 98.5%.



**Series 4000**  
**Proven Sensor Systems**

### STANDARD IPID VALUE PROPOSITION

The IPID (Infrared Perimeter Intrusion Detection) system, proven to outperform other perimeter intrusion detection technologies and part of the integrated family of ECSI security systems.

Low Lifecycle Cost	Easy to use (requiring less staff training time) Self supervision (facilitating in house maintenance)
Best Industry Warranty	10 years
Scalability	Standard sensor assemblies Configurable to meet the needs of any facility
High Quality	Aluminum sensor housings Solid state wiring and circuitry MTBF >50,000 hours MTTR 15 minutes
Highly Accurate	Built to strict military requirements High probability of detection (PD) regardless of weather conditions Low NAR/FAR Operates in harsh environments
Government Approved	Widely accepted by DoD/DoE/NRC

### HARDWARE

### BENEFITS

Site Adaptable	For difficult terrain applications including drainage areas and mountain sides.
Top of the fence application	A cast aluminum swivel assembly designed to support the sensor and fit an existing fence post permits 180° adjustments to follow terrain.
Underwater	IPID sensors are temporarily submersible and may be used where water levels fluctuate at high and low tides in culverts at power plant or nuclear facilities.
Fast, Accurate Alignment	Sophisticated electronic equipment is not required. A single borescope designed to fit the sensor makes alignment simple.
Remote Check Test	Circuitry immediately detects a malfunction in a remote sensor and transmits the information to the central control annunciator panel.
Built-in Signal	Sensors have built-in memory storage. A short or intermittent contact in the wiring will activate an LED at central control.
No Complex Wiring	Single, multi-conductor cables with amphenol connectors eliminate complex wiring.
Fiber Optic Compatible	For video and signal transmission from a single point source.



IPID sensors maintain their specified performance when exposed to environmental conditions.

Transmitter pulse diameter	3.54 in.	Alarm time	2 sec. min. or as long as transmitter pulse is broken
Lens diameter	3.4 in	Sensor dimensions	4.34" x 4.54" x 22.5"
Transmitter divergence	15 mrad	Sensor housing	Cast aluminum
Emitter wave-length	930 nanometers	Power requirements:	
Receiver divergence	7.5 mrad	Primary	120V AC to each sensor pole
Transmitter Synchronization	Internal or external	Regulated power supply (RPS)	28V DC to each sensor
Pulse frequency	1200 Hz	Lens shield measurement	3.6 in. dia. X 8 in.
Pulse time	.6 $\mu$ s	Weight per lens shield	0.5 lbs.
Pulse intake capacity of emission diode	200 mwatts	Effective IPID coverage:	
Operation voltage per sensor	24-32 VDC (65mA $\pm$ )	Fog free areas	Up to 1000 ft.
Power use	130mA per A&B Sensor	Average fog conditions	Up to 300 ft.
Alarm delay	20-120mSECS	Temperature range	- 40° to + 70°C

Note: Optimum working distances will vary depending on climate and specific security requirements.

## APPLICATIONS

### Military

DOD, All bases, Ports and Critical Facilities

### Commercial

Corporate Campuses, and Research & Development Facilities

### Nuclear

Power Plants, Production Facilities and Reclamation Facilities

### Industrial

Pharmaceutical, Chemical & Petrochemical

# ECSI

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