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6187 Industrial/Outdoor SharpShooter PIR Sensor

Rugged installation Fresnel lens motion sensor

Overview

The rugged passive infrared 6187 SharpShooter® detectors work well in harsh environments, including extremely cold temperatures. The unique design of the 6187 sensors enables them to be used in applications ranging from outdoors to indoor industrial plants where they could be exposed to weather, dust, shock, and severe temperatures. The sensor is available as either a hard-wired or wireless device.

Outstanding Features

Each 6187 unit uses a dual-element pyroelectric sensor with jumper-selectable one- or two-zone detection. The 6187 series features a sequence processor that combines bidirectional pulse counting and motion verification. A high-resolution Fresnel lens focuses the infrared energy on the pyroelectric sensor while a separate white light filter blocks stray and reflected light.

Housed in a cast-metal housing for durability, the 6187 sensors are designed to mount flat on a wall. A separate swivel bracket is available for applications requiring additional flexibility. The back case is symmetrical, allowing conduit entry from bottom, left, or right; top entry is not recommended. The case as well as the mounting screws are gasketed for water resistance.

The sensors handle operating temperatures from -40 to 120°F (-40 to 50°C).



Standard Features

- **Cast metal housing for rugged industrial or outdoor installations**
- **Water resistant and dust proof**
- **Operates to -40°F (-40°C)**
- **Includes separate swivel bracket for flexible mounting**
- **Also available in 3 V or wireless options**



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Specifications

Electrical, 6187CTX

- Input voltage: 7 to 16 VDC
- Current: 8 mA typical, 10 mA maximum
- Maximum loop rating: 50 mA @ 16 VDC
- Alarm output: Fail-safe contacts with 10 ohms in series, Form C, Normally Closed and Open (SPDT)
- Tamper loop rating: 50 mA, Normally Closed

Electrical, 618703

- Input voltage: 2.7 to 5.0 VDC
- Current: 10 mA typical, 13 mA maximum
- Alarm output: Normally low and normally high; CMOS outputs
- Tamper loop rating: 50 mA, Normally Closed
- Mode selection: Walktest mode—tamper switch open; RF mode—approximately 2.5 minutes after tamper switch closed

Environmental

- Operating temperature: -40 to 120°F (-40 to 50°C)
- Humidity: 10 to 90%, noncondensing
- RFI immunity: Greater than 10 V/meter from 1 to 1,000 MHz
- Static/lightning immunity: 2.5 kV, 2 joules maximum energy impulse, 1 msec rise / 50 msec decay

Features

- Pulse count: Bidirectional, 1 event (2 pulses) or 2 events (4 pulses)
- Detection range x field of view, standard: 45 ft. (13.7 m) x 90°
- Detection range x field of view, vertical barrier: 40 ft. (12.2 m) x 90°
- Detection range x field of view, long range: 70 ft. (21.3 m) x 6°
- Mounting: Wall only / conduit entry
- Alarm duration: 2 to 5 sec. (5 to 9 sec. in 618703 RF mode)
- LED indicator: For walktest

Physical

- Dimensions (HxWxD): 5.13 x 5.13 x 3.30 in. (130 x 130 x 84 mm)
- Weight: 1.9 lb. (862 g)
- Construction: Dustproof, water-resistant cast metal
- Color: Off-white

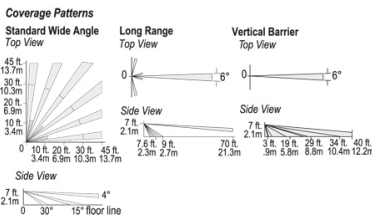
Regulatory

- C-UL-US

A&E Specifications

- Available at www.gesecurity.com

Related Diagram



Ordering Information

6187CTX-N	Industrial/outdoor SharpShooter PIR motion sensor, die-cast aluminum housing with gasket for rugged installations, water resistant, 45 ft. x 90° standard coverage, includes lens pack
618703-N	
6083-N	Swivel bracket



GE Security

503-885-5700
888-GE-SECURITY
(437-3287)
faxback 800-483-2495
email info@gesecurity.com
www.gesecurity.com

Asia
tel 852-2907-8108
fax 852-2142-5063
Australia
tel +61-3-9259-4700
fax +61-3-9259-4799

Europe
tel +44-113-238-1668
fax +44-113-253-8121
Latin America
tel 305-267-4301
fax 305-267-4300