



DS415i and DS435i Single Beam Photoelectric Detectors



- ▶ 150 m (500 ft) range
- ▶ Friction lock optics
- ▶ Alarm retransmission
- ▶ Alarm memory (DS435i only)
- ▶ Inhibit wiring (DS435i only)

This single-beam photoelectric detector series consists of the surface mount DS415i and DS435i Detectors with their separate transmitters and receivers. The transmitter emits one invisible infrared beam to the receiver. If the beam is broken, the receiver signals an alarm.

Certifications and Approvals

UL639, Intrusion Detection Units
 S306-M89
 CE

Functions

Alarm Memory (DS435i only)

Provides indication of stored alarms for use in multiple unit applications by latching the alarm LED at the receiver. Controlled by a switched voltage from the control panel.

Alarm Retransmission

Supervised alarm circuit transmitter that allows connection of normally open or normally closed devices such as magnetic contacts or relays from other detectors. Their condition is relayed to the receiver by transmitter shutdown.

Inhibit Wiring (DS435i only)

Optional signal synchronization wire between transmitter and receiver. Prevents receiver from being activated by other sources such as another transmitter. Units must have a common ground connection.

Test Features

- Alarm LED
- Margin test switch to assist with alignment

Technical Specifications

Photobeam

DS415i Range: 150 m (500 ft)

DS435i Range: 150 m (500 ft)

Enclosure Design

Dimensions: 16.2 cm x 7.7 cm x 6.6 cm (6.375 in. x 3 in. x 2.6 in.)

Material: High impact Lexan® cover with die cast zinc base.

Environmental Considerations

Operating Temperature: -18°C to +49°C (0°F to +120°F). *For UL installations the operating range is 0°C to +49°C (+32°F to +120°F), indoor use.*

Mounting

Location: Surface mount

Pointability: ±90° horizontal, ±20° vertical.

Power Requirements

Input Power: 8 VDC to 14.5 VDC or 12 VAC

DS415i Transmitter Current Draw: 8 mA at 12 VDC, 68 mA RMS with battery.

DS415i Receiver Current Draw: 33 mA at 12 VDC, 95 mA RMS with battery.

DS435i Transmitter Current Draw: 8 mA at 12 VDC

DS435i Receiver Current Draw: 20 mA at 12 VDC

Alarm Output: Form C contacts rated at 3.0 W, 125 mA at 28 VDC for resistive loads.

Tamper Output: Form A contact rated 125 mA at 28 VDC.

Trademarks

Lexan® is either a trademark or registered trademark of General Electric Company in the United States and other countries.

Ordering Information

DS435i High Performance Detector	DS435i
Provides DC operation only, alarm memory, and inhibit wiring. The range is 150 m (500 ft).	

Accessories

P333 Rechargeable Battery Pack	P333
Rechargeable (Nickel-Cadmium) battery pack rated for 3.6 V, 0.65 Ah.	

TC6000 Test Cord	TC6000
Test cord for connecting a compatible detector's test pins to a voltmeter. It is 4.6 m (15 ft) long.	

TR12 Transformer	TR12
12 VAC, 0.93 A transformer.	

Ordering Information

DS415i Detector	DS415i
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Provides AC/DC operation and battery backup. Includes a P333 Standby Battery. The range is 150 m (500 ft).

DS415iDC Detector	DS415iDC
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Provides DC operation only. The range is 150 m (500 ft).

DS415i-CAN Detector for Canada	DS415i-CAN
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Provides AC/DC operation and battery backup. Includes a P333 Standby Battery. The range is 150 m (500 ft).

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