

# DS308EA Quad PIR Intrusion Detector



## Security Systems



- Anti-masking with spray detect
- Quad element design
- Microprocessor controlled self-test supervision systems
- Q-map signal processing
- Field replaceable pointable mirrored optics
- Temperature compensation
- Motion Monitor

The wall mount DS308EA Quad PIR Detector uses Q-map signal processing and a four-element (Quad), dual opposed sensor design to provide excellent catch performance with freedom from false alarms. The Anti-masking feature can detect a cover-up or an intentional or accidental blocking by sending a trouble signal to the panel. Test features, including Motion Monitor, provide coverage integrity.

### Functions

#### Anti-Masking with Spray Detect

PIR Anti-masking feature detects objects placed over the cover of the detector or sprayed on the lens area. Anti-mask sensitivity is selectable, and anti-mask activation can be delayed to reduce false alarms.

#### Q-map Signal Processing

Analyzes the signals from each channel to eliminate false alarms. The horizontally opposed signals must match with specific timing, amplitude, and signatures to cause an alarm. Q-map adjusts for small targets that cause signals in one channel but not the adjacent, opposing channel. This reduces false alarms from small targets such as rodents, while maintaining catch performance of human-sized targets.

### Test Features

- LED flashes to indicate a trouble condition. Dual channel internal noise voltage test pins use standard analog meter to provide precise pattern location and background disturbance evaluation.
- Remote Walk Test Control: The walk test LED can be activated remotely through a control panel command.

### Temperature Compensation

Automatically monitors the ambient temperature and adjusts the Signal processing to maintain proper catch performance at critical temperature ranges.

### Alarm Memory

Provides indication of stored alarms. Controlled by a switched voltage from the control panel.

### Certifications and Approvals

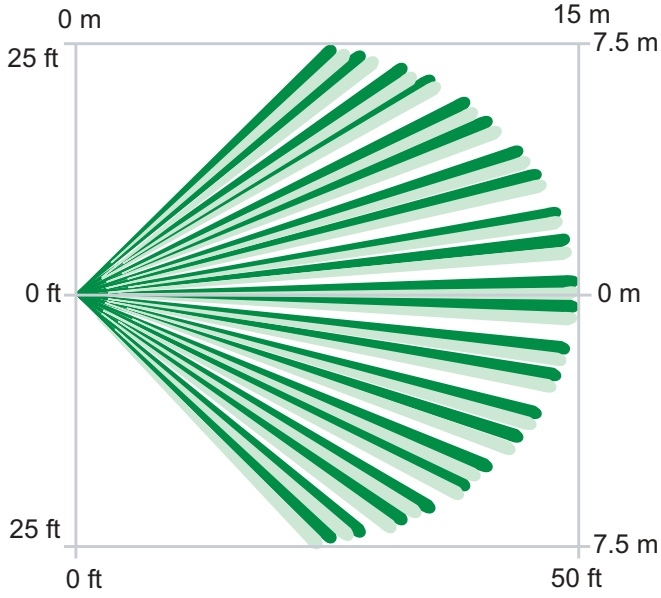
#### DS308EA

UL Standard  
Approval

UL639, Intrusion Detection Units  
Afnor (NF, A2P)

### Installation/Configuration Notes

Standard Broad Coverage 15 m x 15 m (50 ft x 50 ft)  
*Top View*

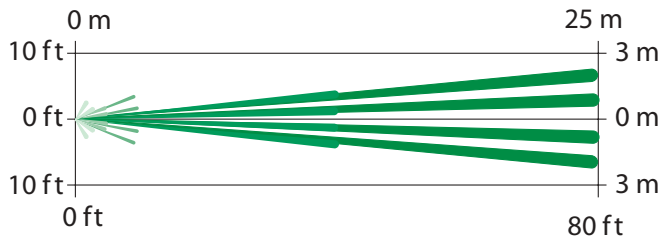


Side View



**Optional Barrier Coverage: (OMB77) 25 m x 5 m (80 ft x 16 ft)**

Top View

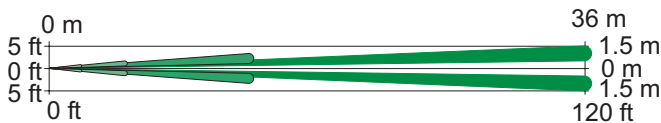


Side View



**Optional Long Range Coverage: (OMLR77) 40 m x 3 m (120 ft x 10 ft)**

Top View



Side View

### Technical Specifications

**Internal Pointability:** Coverage is adjustable to  $\pm 10^\circ$  horizontally,  $+2^\circ$  to  $-18^\circ$  vertically.

**Radio Frequency Interference (RFI) Immunity:** No alarm or setup on critical frequencies in the range from 26 MHz to 950 MHz at 50 V/m.

### Enclosure Design

**Dimensions:** 14.6 cm x 9.5 cm x 6.35 cm  
(5.75 in. x 3.75 in. x 2.5 in)

**Material:** High impact ABS plastic enclosure

### Environmental Considerations

**Operating Temperature:**  $-29^\circ\text{C}$  to  $+49^\circ\text{C}$  ( $-20^\circ\text{F}$  to  $+120^\circ\text{F}$ )

*For UL Listed Applications,  $0^\circ\text{C}$  to  $+49^\circ\text{C}$  ( $+32^\circ\text{F}$  to  $+120^\circ\text{F}$ )*

### Mounting

**Height Range:** 2.3 m (7.5 ft) recommended

**Location:** Surface or corner

### Outputs

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

**Tamper:** Normally-closed (with cover in place). Contacts rated at 28 VDC, 125 mA maximum.

**Trouble:** Normally-closed dry contacts rated at 28 VDC, 125 mA maximum. Open during trouble.

### Power Requirements

**Current Draw:** 25 mA at 12 VDC

**Voltage:** 6 VDC to 15 VDC

### Ordering Information

DS308EA Quad PIR Intrusion Detector	DS308EA
B328 Gimbal-mount Bracket	B328
B335-3 Low-profile Swivel-mount Bracket	B335-3
B338 Universal Ceiling Bracket	B338
OMB77-3 Barrier Mirror	OMB77-3
OMLR77-3 Long-range Mirror	OMLR77-3
TC6000 Test Cord	TC6000

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