

DS308EA Quad PIR Detector with Anti-mask

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- ▶ Anti-mask with spray detect
- ▶ Quad element design
- ▶ Microprocessor controlled self-test supervision systems
- ▶ Q-map signal processing
- ▶ Field replaceable pointable mirrored optics

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-mask with Spray Detect

PIR Anti-mask 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.

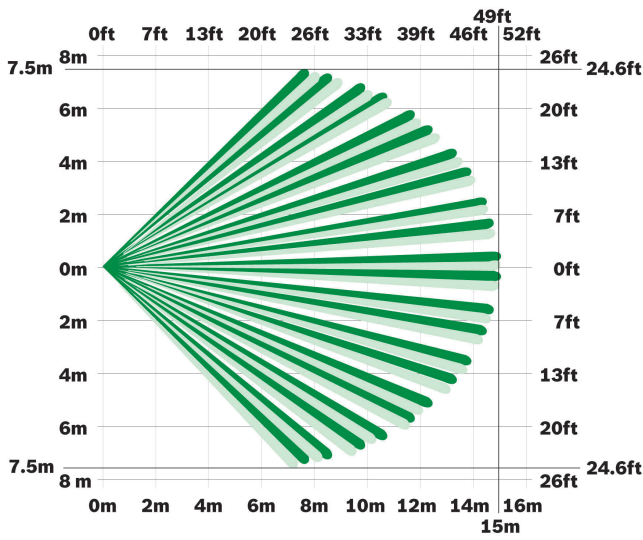
Certifications and approvals

France	AFNOR	NF, A2P
Europe	DS308EA complies with EN50131-1 grade 3	

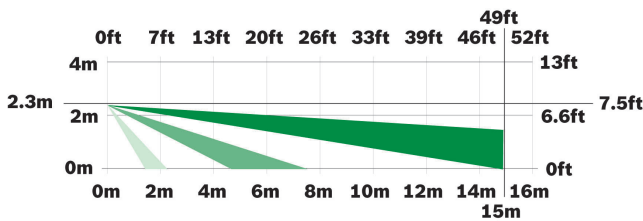
Region	Certification	
Europe	CE	2004/108/EC, EN55022: 2006, EN50130-4: 1996 +A1: 1998 +A2: 2003, EN61000-4-2: 1995 +A1: 1999 +A2: 2001, EN61000-4-3: 2006, EN61000-4-4: 2004, EN61000-4-5: 2005, EN61000-4-6: 2007, EN61000-4-11:2004, EN60950-1: 2006
Poland	CNBOP	DS308EA only: 92/03
USA	UL	DS308EA only: ANSR: Intrusion detection Units (UL639)
Italy	IMQ	DS308EA-ITA: U0616
China	CCC	DS308EA-CHI: 2004031901000034
Sweden	INTYG	DS308EA only: 04-754

Installation/configuration notes

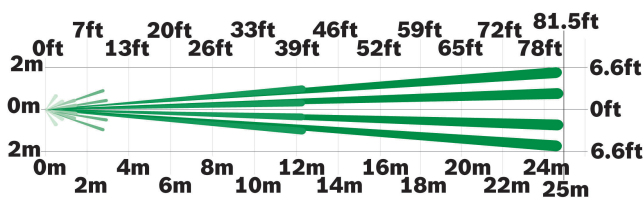
Coverage Patterns



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

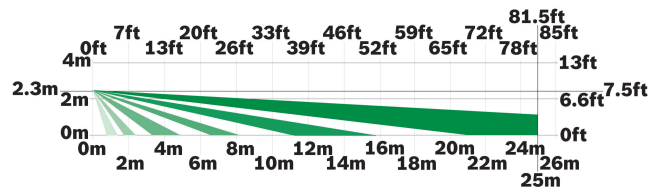


Side View
Standard Broad Coverage 15 m x 15 m (50 ft x 50 ft)

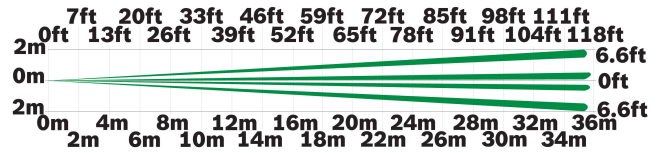


Top View

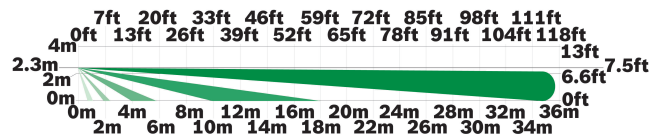
Optional Barrier Coverage: (OMB77) 25 m x 5 m (80 ft x 16 ft)



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



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



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

Technical specifications

Electrical

Current Draw:	25 mA at 12 VDC
Voltage:	6 VDC to 15 VDC

Environmental Considerations

Operating Temperature:	-29°C to +49°C (-20°F to +120°F) For UL Listed Applications, 0°C to +49°C (+32°F to +120°F)
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.
DS308EA:	Complies with Environmental Class II (EN50130-5)

Mechanical

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

Mounting

Height Range:	2.3 m (7.5 ft) recommended
Location:	Surface or corner
Internal Pointability:	Coverage is adjustable to $\pm 10^\circ$ horizontally, $+2^\circ$ to -18° vertically.

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.

Ordering information**DS308EA Quad PIR Intrusion Detector**

Provides 15 m x 15 m (50 ft x 50 ft) coverage, anti-masking with spray detect, quad element design, microprocessor controlled self-test supervision systems and Q-map signal processing.

Order number **DS308EA**

DS308EA-FRA Quad PIR Intrusion Detector

For use in France. Provides 15 m x 15 m (50 ft x 50 ft) coverage, anti-masking with spray detect, quad element design, microprocessor controlled self-test supervision systems and Q-map signal processing.

Order number **DS308EA-FRA**

DS308EA-ITA Quad PIR Intrusion Detector

For use in Italy. Provides 15 m x 15 m (50 ft x 50 ft) coverage, anti-masking with spray detect, quad element design, microprocessor controlled self-test supervision systems and Q-map signal processing.

Order number **DS308EA-ITA**

DS308EA-CHI Quad PIR Detector with Anti-Mask

For use in China. Provides 15 m x 15 m (50 ft x 50 ft) coverage, anti-masking with spray detect, quad element design, microprocessor controlled self-test supervision systems and Q-map signal processing.

Order number **DS308EA-CHI**

Accessories**B328 Gimbal-mount Bracket**

Mounts on a single-gang box and allows rotation of a detector. Wires are hidden inside.

Order number **B328**

Swiveling B335-3 low-profile mount

Swiveling, low-profile, plastic mount for wall mounting. The vertical swivel range is $+10^\circ$ to -20° , while the horizontal swivel range is $\pm 25^\circ$. Available in triple packs.

Order number **B335-3**

B338 Universal Ceiling-mount Bracket

Swiveling plastic mount for ceiling mounting. The vertical swivel range is $+7^\circ$ to -16° , while the horizontal swivel range is $\pm 45^\circ$.

Order number **B338**

OMB77-3 Barrier Mirror

Provides barrier coverage with a 25 m x 5 m (80 ft x 16 ft) pattern. Shipped in packages of three.

Order number **OMB77-3**

OMLR77-3 Long-range Mirror

Provides long-range coverage with a 40 m x 3 m (120 ft x 10 ft) pattern. Shipped in packages of three.

Order number **OMLR77-3**

TC6000 Test Cord

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

Order number **TC6000**

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