BOSCH
Invented for life

DS308EA Quad PIR Detector with Anti-Mask

▸ **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.
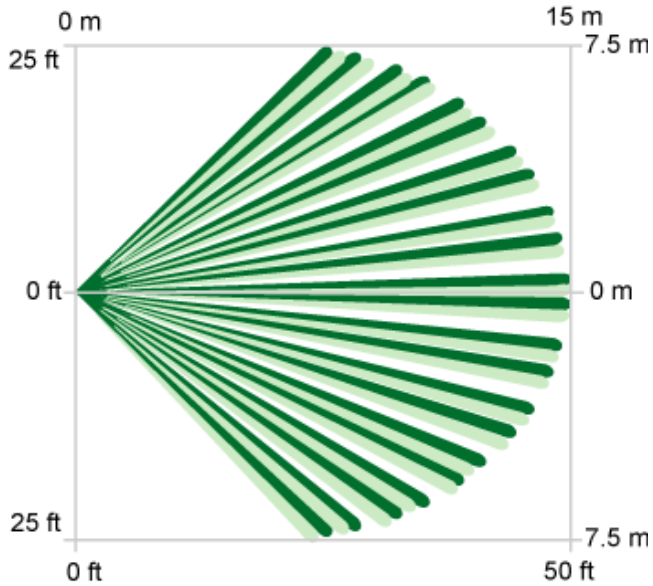
Alarm Memory

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

Certifications and Approvals

DS308EA

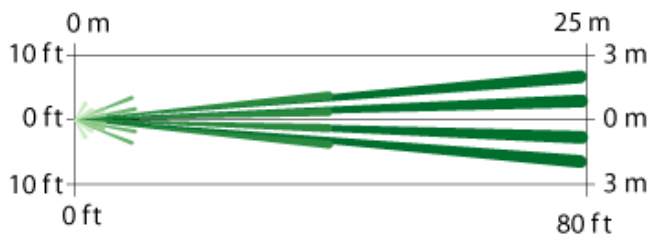|	
UL Standard	UL639, Intrusion Detection Units
Approval	Afnor (NF, A2P)
Complies with:	EN50131-1 grade 3

Installation/Configuration Notes

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

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°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)

Mounting

Height Range:	2.3 m (7.5 ft) recommended
Location:	Surface or corner
Internal Pointability:	Coverage is adjustable to ±10° horizontally, +2° 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.

Power Requirements

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

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.	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.	DS308EA-FRA

Ordering Information

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.	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.	DS308EA-CHI

Accessories

B328 Gimbal-mount Bracket Mounts on a single-gang box and allows rotation of a detector. Wires are hidden inside.	B328
B335-3 Low-profile Swivel-mount Bracket Plastic, swivel, low profile bracket for walls. The vertical pivot range is +10° to -20°; the horizontal pivot range is ±25°. Shipped in packages of three.	B335-3
B338 Universal Ceiling Bracket Plastic swivel bracket for ceilings. The vertical pivot range is +7° to -16°; the horizontal pivot range is ±45°.	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.	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.	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.	TC6000