

Q-Logic

DETECTORS



Q-Logic is a twin-channel, true quad logic motion detector packed into an attractive housing with a detachable bracket.

The sealed pyroelectric sensor chamber protects the optics and sensor from insects and air currents, thus eliminating a major source of false alarms. An internally fitted pet avoidance mask provides an ideal solution to the problem of pets activating the alarm.

Q-Logic incorporates a versatile swivel bracket that provides a wide range of mounting options, simplifies installation and facilitates greater control over the detection pattern.

Q-Logic has TMR™ - True Motion Recognition, a patented signal processing software that helps the detector distinguish between true and false alarms by analyzing the true motion of the human body based on known factors: speed of target, signal strength of target, superimposed noise, room temperature, and other indicators. The use of fuzzy logic gives TMR™ the unique capability to evaluate the relationships that exist between all of these key factors.

A selectable, 3-position motion event counter, superior RFI protection and true temperature compensation all provide the highest degree of immunity to false alarms.

Q-Logic's ultra-low current consumption (10 mA standby) ensures extended operation from the backup battery during power failures. A 90° wide-angle lens creates 38 beams in 3 detection layers, that provide a maximum coverage area of 15 x 15 m (50 x 50 ft).

Q-Logic's PCB is interchangeable with Visonic Ltd's Discovery PIR.

Specifications

OPTICAL

Detection Pattern: 90° wide-angle lens with 19 true quad zones in 3 detection layers. Max coverage is 15 x 15 m (50 x 50 ft).

Pet Alley: Plastic mask may be fitted internally, leaving only 9 quad zones in a single layer, with the same view angle and coverage area as above.

Adjustment: 3-position vertical adjustment scale: PET, FAR and NEAR.

ELECTRICAL

Input Voltage: 9 to 16 VDC

Current @ 12 VDC: 10 mA standby, 16 mA on alarm (LED ON)

Alarm Relay: Normally closed (fail-safe) contacts with 18-ohm resistor in series. Rating - 0.1 A resistive / 30 VDC

Tamper Output: Normally closed contacts rated at 50 mA resistive / 30 VDC

Alarm Period: 4 seconds

True Motion Event Verification: 3 position selector - 1, 2 or 3 motion events

LED Control: Walk-test enabled/disabled by internal link

Detector Type: True quad element low-noise pyroelectric sensor

MOUNTING

Height: Up to 3.6 m (12 ft)

Room Size:

Up to 15 m (50 ft) in the "FAR" and "PET" positions
2 - 8 m (6 - 24 ft) in the NEAR position

Installation Options:

Surface or corner (without bracket); surface or ceiling (with bracket)

Bracket Adjustment: 20° downward, 20° left and right

ENVIRONMENTAL

RFI Protection: >30 V/m up to 1000 MHz

Operating Temperatures: -10°C to 50°C (14°F to 122°F)

Storage Temperatures: -20°C to 60°C (-4°F to 140°F)

Compliance with Standards: This device complies with the European Council Directive EMC 89/336/EEC & 92/31/EEC, and bears the CE mark and certification

PHYSICAL

Dimensions (H x W x D): 117 x 65 x 47 mm (4-5/8 x 2-9/16 x 1-7/8 in)

Weight: 98 g (3.4 oz) without bracket, 113 g (4 oz) with bracket

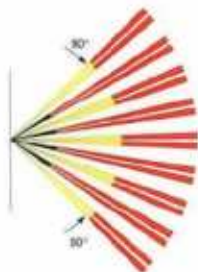
PATENTS

U.S. Patent No.: 5,693,943

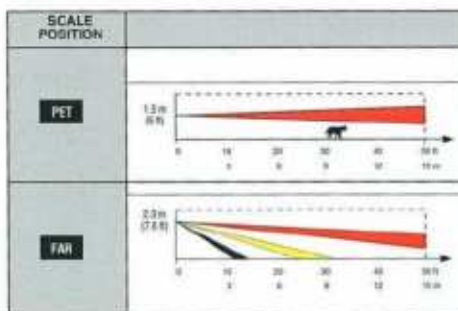
Visonic Ltd. reserves the right to change specifications without prior notice. Full warranty statement available upon request.

Top view

Max. Coverage: 15 x 15 m / 90° (50 x 50 ft / 90°)



Side view



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