iWISE®
QUAD AM

The iWISE® QUAD AM is designed for high-risk installations. Two independent dual element PIR sensors and digital processing channels provide the highest level of catch performance and false alarm immunity. Anti-Masking is achieved by an Active Infrared channel, which is located behind the lens to protect against covering or spraying of the lens– even with lacquer.

The iWISE QUAD AM complies with PD6662 and EN 50131-1 Grade 3 requirements and includes built-in EOL resistors for easier installation.

Two dual element PIR sensors

EN50131-1 GRADE 3
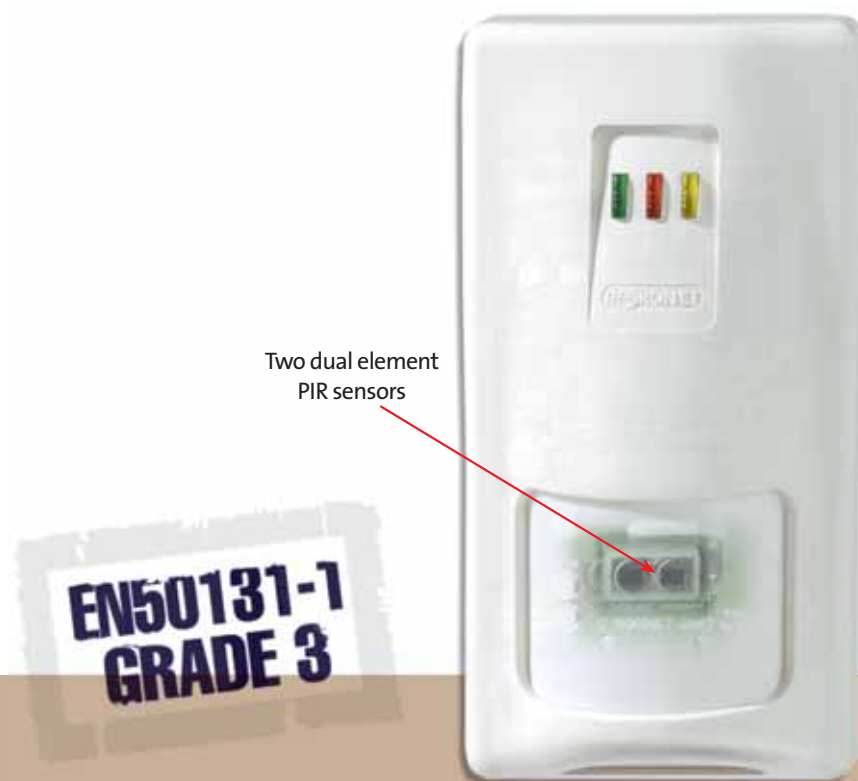
Main Features
- Two dual-element PIR sensors
- Two independent digital signal processing channels
- Coverage 15m (50ft)
- Active IR Anti-Mask with separate relay
- Built-in EOL resistors, jumper selectable
- Wall and Cover Tampers
- Opto-relays for low current consumption and long life time
- Remote and Local Self Test
- Set and LED control inputs
- Flexible installation height up to 3.3m (10'10")
- Patented True Temperature Compensation
- 3 LED walk test indication
- Creep zone
- High RF immunity 30V/m
- Superior false alarm rejection of white light and hot air turbulence
- Wall tamper proof swivel (optional)

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Intelligence in the Service of Security

iWISE QUAD AM has an improved lens design and Intelligent Digital Signal Processing methods that automatically adjust the alarm threshold and pulse count verification according to the actual event occurring.

The challenge facing all detector manufacturers is where to set the threshold for alarm:
Too high-and the detector is not responsive enough. Too low-and the detector will cause false alarms.

The solution is to take into account as many factors as possible and to adjust the threshold level in real-time according to the event-taking place.

iWISE Digital Signal Processing algorithms take into account environmental and intruder behavioral factors in order to make an intelligent alarm decision. The algorithms include True Temperature Compensation, Crossing Frequency Compensation and Automatic Pulse Count Adjustment.
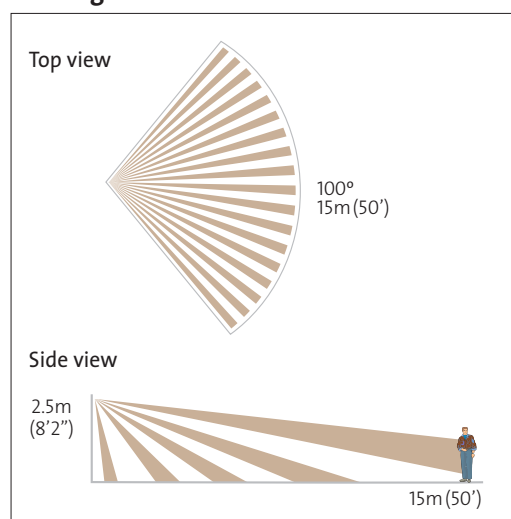
Did you know?

European standard EN50131 requires that all detectors in a Grade 3 installation must have active IR anti-mask technology. Anti-mask detection must be inactivated during set times in order to reduce false alarms.

Coverage Pattern

Top view

100°
15m (50')

Side view

2.5m
(8'2")

15m (50')

Technical Specifications

	iWISE QUAD
Coverage	15m (50') 100°, 4 Vertical levels and creep zone
Variable mounting height	2.1m to 3.3m (6'11" to 10'10")
Intruder detection method	Two dual-element PIR sensors with separate Digital Signal Processing
Anti-Masking method	Active infrared
Trouble indication	Visual & separate AM / trouble relay
RFI Immunity	30 V/m from 10MHz to 1 GHz
Operating voltage	9-16 VDC
Current consumption at 12VDC	12mA typical, 37mA with all 3 LEDs on
Alarm, Tamper and AM contacts	Opto-relays, N.C., 100mA, 24VDC
Alarm time	2.2 sec. minimum
Optical filtering for white light protection	Pigmented PIR sensor cover
Operating temperature	-20° to 55° C (-4° to 131° F)
Storage temperature	-20° to 60° C (-4° to 140° F)
Dimensions	128 x 64 x 41 mm (5.0 x 2.5 x 1.6")

Ordering Information

Part Numbers	Description
RK800Q0G300A	iWISE QUAD AM 15m Grade 3
RA91T000000A	iWISE wall swivel with back tamper
RA910000000A	iWISE wall/corner swivel
RA900000000A	iWISE ceiling swivel

Meets the requirements of:
- EN50131-1 Grade 3
- PD6662 Grade 3
- TS50131-2-4 Grade 3
- Environmental Class 2

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