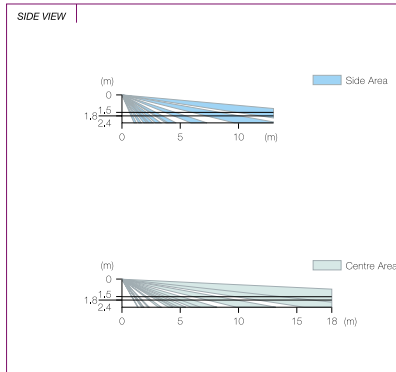
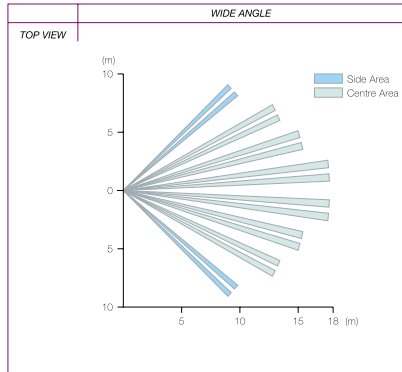




SEQUENTIAL CONFIRMATION DETECTOR
SEQUENTIAL
SQ-40/SQ-60

DETECTION PATTERNS



SPECIFICATIONS

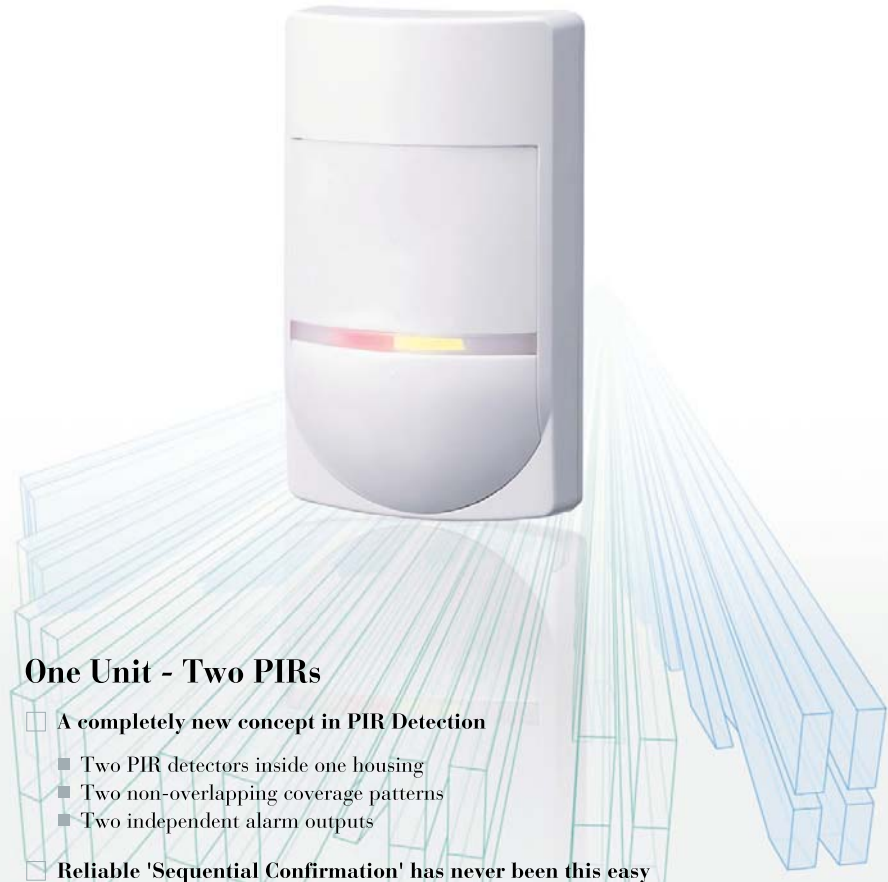
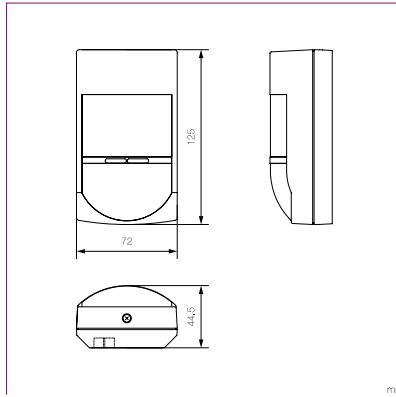
MODEL	SQ-40	SQ-60
Detection method	Passive infrared	
Coverage	Wide angle 85° wide	
	12m x 12m	18m x 18m
Detection zones	Side Area 26; Centre Area 44,	
Mounting height	1,5 - 2,4m	1,8 - 2,4m
Sensitivity	20° at 0,6m/sec., 2,4m mounting height	
Detection speed	0,3 - 1,5m/sec.	
Power input	9,5 - 18V DC	
Current draw	17mA (normal), 20mA (max.) at 12V DC	
Alarm period	Approx. 2 sec.	
Alarm output	2 x N.C., 28V DC 0,2A max.	
Tamper switch	N.C., Opens when cover is removed	
	28V DC 0,1A max.	
Warm-up period	Approx. 60 sec.	
LED indicator	Both LEDs turned on during warm-up. In operation: yellow upon detection in side area and red in centre area	
D.I., terminal	LED can be enabled or disabled remotely from control panel by D.I., terminal	
RF interference	No alarm 20V/m	
Operating temperature	-20°C - +55°C	
Environment humidity	95% max.	
Weight	120g	

*Specifications and design are subject to change without prior notice.
 NOTE: This unit is designed to detect movement of an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion. This product conforms to the category "Residential, Commercial and Light Industry" of EMC Directive 89/336 EEC.

OPTION

Optional Multi-Angle Bracket
FA-3 Wall & Ceiling Mounting Bracket
 Horizontally ± 45°, Vertically 0° to 15° downwards

DIMENSIONS



One Unit - Two PIRs

A completely new concept in PIR Detection

- Two PIR detectors inside one housing
- Two non-overlapping coverage patterns
- Two independent alarm outputs

Reliable 'Sequential Confirmation' has never been this easy

- Conforms to the latest ACPO guidelines on sequentially confirmed activations
- Proven PIR technology means false alarms are minimised
- 'One unit - one cable' makes installation easy



"Take Care of the Environment"
 This catalogue uses recycled paper



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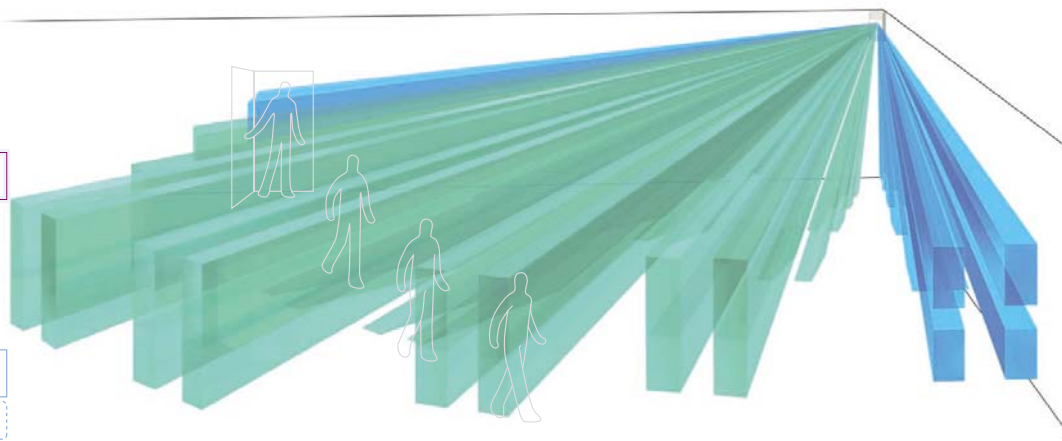
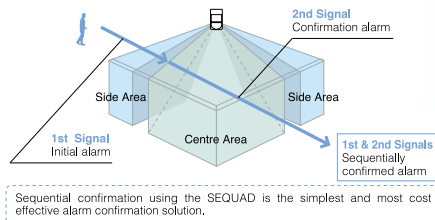
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Two-in-One SEQUAD

Sequential confirmation has never been this easy

'Separate Double-Area Configuration' (Patent-Pending)

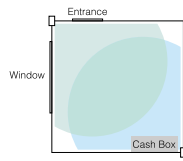
The new SEQUAD is unique in that it contains two independent PIR detectors inside one housing. Mounted in the corner of a room, one of the detectors within the SEQUAD provides coverage along each of the two walls (Side Area) and the other covers the central area of the room (Centre Area). When a door or window is opened, an alarm is generated by side area. If an intruder then enters the room a second alarm is activated by centre area, providing a sequentially confirmed activation. This 'Separate Double-Area Configuration' is unique to Optex.



What is Sequential Confirmation?

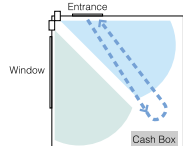
Sequential confirmation is one of the most popular ACPO-approved*1 options for creating confirmed activations. It works by looking for a second activation. This must come from a different detector to the one signaling the initial alarm condition and be within a defined time window indicating that an intruder, having broken in, is moving through the premises.

The two detectors must have separate outputs and connections, be connected to separate zones on the alarm system control panel and, if they are both PIR detectors, have detection patterns which do not overlap.



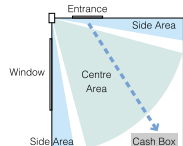
Example 1. Use of two PIRs in a room

This arrangement does not comply with ACPO policy because the detection areas are overlapping.



Example 2. Use of two PIRs for separate areas

Although this installation complies with ACPO policy, because the detection areas do not overlap, it allows for the possibility of a burglary with no sequentially confirmed activation.



Example 3. Use of SEQUAD

By creating independent side and centre area detection patterns without overlap, this installation, using a single SEQUAD sensor, creates a sequentially confirmed alarm signal when the burglary occurs.

Key Benefits to SEQUAD

- **SEQUAD uses proven PIR technology**
Optex have been designing and manufacturing PIR detectors for over twenty years and installers will verify that our PIR technology has proven reliability.
- **'Sequential confirmation' is reliable**
Compared to the other two recognised methods of confirmation - audio and visual - sequential confirmation is the simplest, most cost effective and reliable solution.
- **Double-Area Configuration**
Using patent-pending 'Separate Double-Area Configuration' technology, there is a small, discrete gap between the detection patterns of the two detectors. Because there is no overlap, the SEQUAD complies with current recommendations.

- **SEQUAD makes upgrade easy**
When upgrading a conventional alarm system to one that provides sequentially confirmed activations, SEQUAD can save you time and money, by using existing eight-core cable. No extra space or wiring is necessary, simply switch the detectors over, align them and the job is done.

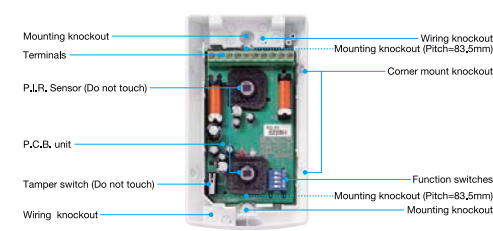
- **'One unit - one cable' makes installation easy**
Although the SEQUAD contains two detectors, it needs only one eight-core cable, making installation quick and easy and leaving the room's décor minimally disrupted.



Additional Features for False Alarm Protection

- **Patented Quad Zone Logic**
Quad zones capture the entire body mass and, by recognizing differences in detection signal strength, determine the size of an object in a detection area. Quad Zone Logic reduces the false alarms caused by small animals, which create much smaller signals than larger human-sized targets.
- **Digital Signal Processing**
Increases detection capability in high temperature conditions, where the background temperature is similar to that of the human body. It maintains a high level of false alarm protection and helps prevent valid alarms being missed by automatically adjusting sensitivity according to the environmental temperature.
- **Advanced Temperature Compensation**
Provides high-reliability performance against outside noise, such as electromagnetic interference, greatly reducing false alarms.

- **Spherical Lens Design**
Eliminates distortion by providing a uniform focal length for every detection zone and because the sphere is one of the strongest geometrical structures, provides a robust protective housing for the internal electronics.
- **Sealed Optics**
With conventional PIR detectors, small insects and draughts can cause false alarms by getting between the lens and the pyroelectric element. 'Sealed Optics' make this space a separate sealed compartment ensuring that it remains empty and undisturbed at all times.
- **Easy to View LED Indicator**
- **Slim Stylish Design**
- **100% factory-tested**



*1 The Association of Chief Police Officers (ACPO) Security Systems Policy, which came into practice in July 2002, states that the police will only offer an immediate first response to new alarm systems, or systems that have lost police response, on the condition that they have the facility to signal 'confirmed activations'.