

Mirror Optics

Digital

TM



DSC
STRATA™



The Strata PIR motion detector adds mirror optic technology to DSC's already extensive line of intrusion sensors. The DSC® Strata detector utilizes a highly reflective mirror instead of a lens to provide a precise, uniform pattern. This allows greater amounts of infrared energy to be collected and focussed directly onto the unit's sensing component. The result is superior catch performance and improved false alarm immunity.

DIGITAL TECHNOLOGY

The Strata PIR motion detector incorporates a microprocessor which performs an array of precise mathematical and logical functions and enables DSC's patented Multi-level Signal Processing (MLSP) to condition the signal more effectively. MLSP maximizes catch performance while providing protection against false alarm sources such as radio interference, air vents and insects. The unit can be operated in NORMAL mode (high sensitivity) or HOSTILE mode (low sensitivity) with minimal reduction of the protection pattern. A wide angle mirror providing 12.2m x 15.2m (40'x 50') coverage is standard. An optional curtain mirror (ST-M3) is also available for long range applications with a coverage of 24m x 1.5m (80'x 5').

VERSATILE MOUNTING

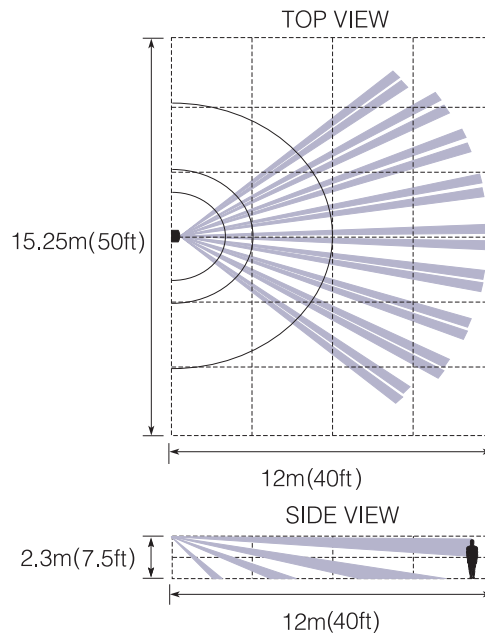
Strata series detectors are shipped complete with a swivel-mount bracket to provide the ultimate in detector location and installation flexibility. The Strata PIR motion detector can be mounted on the wall, on the ceiling or in a corner. This flexibility allows Strata PIRs to be installed quickly in a more convenient or less visible location, and accurately aimed at the area to be protected. The bracket also features a built-in channel to conceal wiring.

MODELS

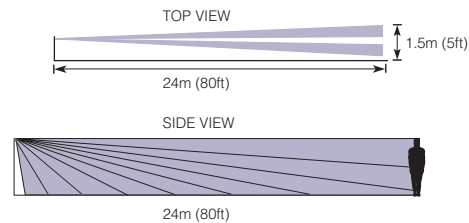
ST-300D	FORM 'A' ALARM CONTACT
ST-301D	FORM 'A' ALARM CONTACT & TAMPER SWITCH
ST-302D	FORM 'C' ALARM CONTACT & TAMPER SWITCH
ST-M3	OPTIONAL CURTAIN MIRROR

DIGITAL MIRROR OPTIC PIR

COVERAGE PATTERNS (ST-M1, STANDARD MIRROR)



COVERAGE PATTERNS (ST-M3, OPTIONAL CURTAIN MIRROR)



SPECIFICATIONS

Operating voltage	9.5VDC-14.5VDC
Supply voltage ripple	3.0V PP @ 12VDC
Standby current	15mA(nominal)
Current in alarm	18mA(nominal)
Contact rating	100mA @ 24VDC
Alarm contact resistor in common	10Ω 1/4W
Operating temperature range	-10°C to 50°C (14°F to 122°F)
Operating humidity	5 to 95% RH non-cond.
RF immunity	10V/m plus 80% AM from 80MHz to 1GHz
Static immunity	8kV contact, 15 kV air
Transient immunity	2.4kV @ 1.2 joules
White light immunity	20,000 Lux @ device
Walk detection speed	0.15-3m/s (0.5-10 ft/s)
Coverage angle	80° (ST-M1)
Mounting heights	1.8 - 3.6m (6 - 12ft)



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