

Duet™ Professional-grade dual-technology digital detectors

The Duet family of professional-grade digital dual-technology detectors offers superior catch performance and false alarm immunity even in the harshest environments.

The Duet-AM further employs anti-masking and self-testing capabilities, and is designed to expose malfunction or attempts to defeat the detector. Duet detectors are particularly suitable for large commercial and industrial areas.

Benefits

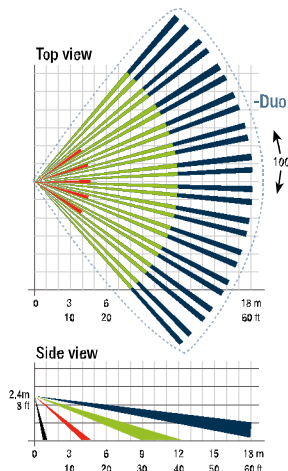
- Superior immunity to false alarms using dual technologies
- Superior fast catch performance
- Highly sensitive large coverage area up to 20m x 20m (67ft x 67ft) with anti-sabotage creep-zone
- Advanced anti-masking and self-testing to detect malfunction and attempts to defeat the detector (Duet-AM)
- Complies with European EN50131-2 and other international standards

Features

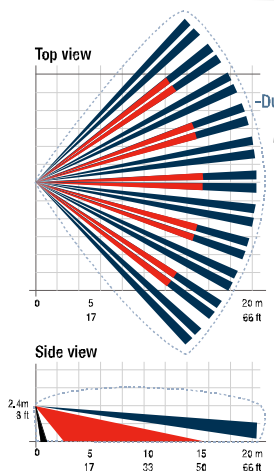
- Dual passive infrared and microwave technologies with optimized digital signal processing for superior detection and long term reliability
- Digital temperature compensation
- White light and UV protection
- Programmable motion event counter
- Optional swivel brackets
- Look down "creep zone"

Model	Type	Harsh Envir. Resistance	Catalog Number
Duet	Dual technology	+++	0-1803-0 0-1805-0 (UL Listed)
Duet-AM	Dual technology / Anti-Masking	+++	0-1812-1 (10.525 Ghz) 0-1812-0 (10.687 Ghz)

Duet - Lens 15D



Duet AM



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Applications:

Commercial and industrial

Patented Technologies

(read more on pages 19-24)

- Advanced anti-masking and self-test "Motion Simulation" to detect malfunction and attempts to defeat the detector
- Ultimate false alarm immunity based on patented True Motion Recognition (TMR™) and Fuzzy Logic algorithms
- 3D cylindrical optics with Target Specific Imaging (TSI™) for true volumetric no "dead" spots detection
- State-of-the-art microwave DRO patented technology utilizing Digital Signal Processing (DSP)
- Protected under US patents: 5,237,330; 5,693,943; 5,936,524; 6,211,522; and other international patents and patent applications

Operating Voltage:	9 to 16 VDC
Standby Current Drain:	21mA at 12VDC
Alarm Output:	100mA, ~30Ω ON resistance
Microwave Freq. (Duo Models):	Duet 10.525 GHz Duet-AM 10.525 or 10.687 GHz
RFI Protection:	Duet >20V/m (up to 1000 MHz) Duet-AM >30V/m (up to 1000 MHz)
Adjustable Sensitivity:	1 or 2 motion events
Operating Temperature:	-10°C to 50°C (14°F to 122°F)
Dimensions (H-W-D):	123 x 76 x 48mm (4 3/16 x 3 x 1 7/8")
Mounting Height:	Duet up to 3.6m (12ft) Duet-AM 2 to 2.6m (6.5 to 8.5ft)
Interchangeable Lenses:	See lens library on page 17
Mounting Accessories:	BR-1, BR-2, BR-3 see page 18