



## DD205-AD

### Addressable dual motion sensor

The optical part of the DD205-AD is a 90° 12m multi curtain mirror with step & glide focus. This means that for good catch performance over a wide range of human walk speeds, a gliding-focus curtain optical system can make use of a narrow band-filter. Resulting in strong and noise-free signals for the alarm decision.

4D processing adds still another layer of sophistication. A microprocessor constantly samples incoming signals, recognizes interference before it can reach a dangerous level and filters out the interference frequencies. Particularly effective against gradual build-up of warm or cold draughts, temperature changes, shocks, vibrations, Pyro spikes.

The microwave part works on C-band (5.8 GHz) using range controlled technology. DD205-AD is more than a dual technology sensor, this award-winning motion sensor use patented Radar technology to precisely time the return signal and calculate distance to a moving object. Combining active radar with passive infrared, Range-Controlled Radar provides crisp detection and superior false alarm immunity within the range selected.

The sensor works like sonar on a submarine, transmitting radar signals that "ping" the coverage area, then bounce back to the sensor on the same path. Objects that are out of the covered range are ignored. The sensor determines the object by calculating its distance from the sensor.

The sensor doesn't listen for any return signal beyond the range selected, and ignores signal reflections within the protected area. Outside the selected range the sensor thus ignores false alarm sources such as water moving in pipes, passing vehicles and people, ceiling fans and rattling doors, or activity in an adjoining area.



### Standard Features

- 12m addressable dual motion sensor
- Maximum coverage of human target with no IR signal loss
- Tolerates wall angle deviation and different mounting height without any adjustment
- Higher immunity to non-professional RF devices using C-band uW
- Much lower chance for nuisance alarm by precise detection pattern (RCR) uW circuit, which ignores false alarm sources
- Only 2 wire connection
- All PIR and microwave setting done through the bus
- Walk test & D/N done through the bus

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### Specifications

Detection range	12 m
Undercrawl protection	Yes
Detection range selection	12 m or 7 m
Coverage field of view	86° with 7 curtains
Coverage pattern selection	Undercrawl blinder
Mounting height	1.8 to 3.0 m
Bus Voltage	12 or 24VDC
Current consumption	990 microA
Unit load for DGP	3
Address range	0 to 255
Microwave frequency (nom.)	5800 MHz
Dimensions (W x H x D)	70 x 120 x 50 mm
Ambient conditions	-10 to +50°C; max. 95% relative humidity
EN50131-2-2	Grade 2

### Ordering Information

Part No.	Description
DD205-AD	Addressable dual motion sensor

