

Tri-tech Outdoor Sensors

DT928/DT928C



PIR + Dual-Microwave, Intelligent MRD Tri-tech Sensor
IP55 professional outdoor casing
Identify the objects and intruder to prevent false alarms
High precision seven-curtain mirror optic

Features:

- PIR, Dual-Microwave, Intelligent Tri-tech Sensor
- The patented Dual Microwave with MRD displacement identification technology: Adopts cutting-edge Phased Array Radar technology to analyze and recognize the shape and relative displacement speed of any intruding objects. It can accurately recognize the differences between the moving human body and the interferential objects such as swaying plants, swaying wet clothes etc., thus to prevent false alarms
- Outdoor application: IP55 rated; 4mm outdoor professional ABS cover is vandal-proof and anti-oxidation
- PIR & Microwave sensitivity is adjustable to optimize the performance within the protected area
- High precision seven-curtain mirror optic: Suitable for high temperature, high humid, strong sunray and salt or fog corrosive environment
- Digital temperature compensation: Can auto adjust sensor to ensure effective detection range and stable frequency
- Self-adaptive circuit: The built-in high performance industrial-grade microprocessor can analyze the surrounding environment on the startup of the motion sensor, then optimize and adjust the operational parameter to ensure a reliable, stable and effective detection
- High light LED indicator: Ensure clear indication even under the strong sunray
- PhotoMos relay
- Optional DT9FP2 swivel bracket, DT9FP3 ceiling bracket

Certificates:

- CE, CCC



Specifications: //////////////////////////////////////

- Detection mode: MRD Dual-microwave system + Dual-element passive Infrared
- PIR optic: High precision seven-curtain mirror optic
- Microwave frequency: 10.525GHz
- Detection sensitivity: PIR & Microwave adjustable
- Detection range: DT928: 11m × 11m
DT928C Curtain Style: 15m × 1m
- Working temperature: -25°C ~ +55°C
- Relative humidity: 5% ~ 95% (non-condensing)
- Water-proof: IP55 rated; 4mm outdoor professional ABS cover is vandal-proof and anti-oxidation
- Automatic temperature compensation: Digital temperature compensation
- Power supply: 9.5V ~ 15V/DC/9mA
- Alarm output : PhotoMos relay NC contacts, 30V/DC/150mA/MAX
- Tamper output: NC contacts, 60V/AC/500mA
- Response speed: 0.3m/s ~ 2m/s
- White light immunity: 52,000 lux/m
- RF immunity: 52V/m, 10MHz ~ 1,000MHz
- Pet immunity: Below 35kg
- Dimensions: 152 × 75 × 55mm
- Weight: 240g

MRD technology sensor Vs. Traditional dual tech sensors

	DT928	Traditional PIR & Microwave sensors
Anti-false alarm index*	≥95%	<4%
Identify human and object	Yes	No
PIR optic	High precision seven-curtain mirror optic	Fresnel lens
Detection technology	Dual-Microwave, PIR, Intelligent MRD Tri-technology	PIR or PIR & Microwave dual-technology
Alarm response speed	Quick	Slow
Rated current	9mA	More than 25mA
Routine maintenance	No need	Need
Price	Same as other sensors or even lower	

Anti-false alarm index (Tested in Toparm lab, which is specially for MRD Dual-Microwave sensors): 95% is the index of anti-false alarm capability of the MRD sensor under the environment which easily causes false alarms, such as direct sunlight, oblique sunlight, swaying branches, 1 mm ~ 100 mm/h of rainfall and the wind at speed of 0 ~ 40 km/h. (Tested under the same conditions, the Anti-false alarm index of the traditional dual-tech sensors is <4%).