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# TOPARM®

## Outdoor Microwave Barrier M-80/M-200/M-200MT

Detection range up to 228m Volumetric Barrier detection zone IP65 rated outdoor application Wide working temperature: -40°C ~ 65°C 4 crystal-controlled modulation channels Four installation methods

Features:

- High-end outdoor perimeter microwave barrier, it consists of transmitter (T) and receiver (R), and the detection range up to 228m (750ft)
- Volumetric Barrier detection zone: Three-dimensional protection zone, not beams-liked zone
- Microwave modulating detection technology features high sensitivity of passive detection and low false alarm rate of active detection
- IP65 rated outdoor professional housing
- Wide working temperature:  $-40^{\circ}$ C ~  $65^{\circ}$ C and relative humidity up to 100%
- 4 crystal-controlled modulation channels for M-200MT, can be overlapped without crosstalk
- Self-adaptive circuit, suitable for various complicated perimeter protection (like long-range perimeter protection, uneven ground environment etc.)
- Anti-environmental interference function: microwave sensitivity won't be affected by heavy fog, rain, snow, etc
- Be immune to animals (like birds, cats, dogs etc) through its original method of false alarm elimination
- Four Installation methods: can easily be installed on any type of fence or pole to provide a solid barrier protection and detect all probable perimeter intrusion

CE, CCC



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- Microwave frequency: 9.5/10.525GHz
- Working channels: 4 channels (for M-200MT)
- Detection sensitivity: High/Low 2 grades for option
- Maximum length of protection zone: M-80 outdoor 100m (330ft); M-200/M-200MT outdoor 228m (750ft)
- Maximum width of protection zone: 1.5m or 3.5m
- Maximum height of protection zone: 2.5m ~ 4.5m
- Ground unevenness: 0.3m
- Height of obstacles: Grass etc. 0.3m, snow 0.5m
- Working temperature: -40°C ~ +65°C
- Water-proof: IP65
- Power supply: 10.5V ~ 24V/DC
- Electric current: <60mA, 12V/DC (one set for M-200)
- Alarm output: 3 seconds, NC 28V/DC, 100mA; NC & NO for M-200MT (PhotoMos Relay)
- Tamper output: NC, 28V/DC, max 300mA
- Response speed: 0.1m/s ~ 10m/s (moving intruder speed)
- Dimensions: 156.6 × 138.4 × 46.5mm
- Weight (per set): 1.1kg

### Outdoor microwave barriers M-200 series Vs. Photoelectric beam sensors

	M-200 Series	Photoelectric beam sensors
Detection range	Three-dimensional detection range	Beam detection range
Installation environment	Suitable for various complicated environment (even uneven ground with grass and snow etc.)	Cannot have any obstacles within detection range
Anti-false alarm rate	Very high	High
Missing alarm	Seldom	Often
Working temperature	-40°C ~ +65°C	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Water-proof	IP65	IP55 or lower
Self-adaptive circuit	Yes	No
Rated current	<60mA	>100mA
Detection dead area	Very small	Area out of beam lines
Installation and adjustment	Easy	Difficult
Routine maintenance	No need	Need