# RD79-6m Safety Barrier Gate Radar

79GHz Frequency - Filter Pedestrians Function & Directional Logic Control





**The Safety Radar RD79** can detect vehicles and pedestrian providing greater security and safety around boom gates. The **RD79** Radar is simple, practical and convenient to install through an easy-to-use App.

It is compatible with any make of boom gates, and its 79GHz frequency is far more reliable than traditional loop detectors or PE beams. Radar technology will operate in any weather conditions, hot or cold and is immune to rain or snow, smoke and dust making it a more economical and reliable solution for any Gates up to 6m. No need for messy, expensive roadworks for loop detectors or wiring.

Operating on high precision 79GHz frequency, the RD79 delivers rapid 100ms response time for instantaneous and reliable detection. It will master complex traffic flows with integrated Directional Logic Control, which distinguishes between approaching and departing vehicles for anti-reverse protection and optimised parking management. Bought in a pair, the second unit can be position at a different angle and be used for free exit detection.

## Product features:

**High Precision and Fine-Grained Detection**

Operating at 79GHz provides superior range and velocity resolution with wider bandwidth capabilities.

- Target Recognition: Distinguishes between pedestrians, bicycles, and motorcycles often missed by traditional systems
- Accurate Triggering: Creates precise "virtual curtain" detection eliminating dead zones

**Directional Discrimination (Advanced Logic)**

Direction of motion sensing revolutionizes traffic management capabilities.

- False Trigger Suppression: Ignores traffic moving away from gate or walking parallel
- Flow Control: Enables strict one-way access control by responding only to approaching targets

**Non-Intrusive Installation (Cost-Efficient)**

Surface-mounted technology eliminates complex installation requirements.

- No Road Cutting: Preserves pavement integrity and reduces Labour costs
- Rapid Deployment: Installation and maintenance completed in minutes without lane closures

**All-Weather Reliability and Durability**

79GHz millimetre-wave technology provides exceptional environmental resistance. IP66 Rated

- Environmental Immunity: Operates reliably in darkness, sunlight, rain, snow, and fog
- Longevity: Protected casing prevents mechanical wear from vehicle traffic

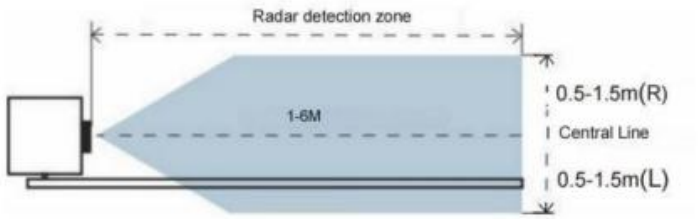
**Intelligent "Human-Vehicle" Differentiation**

Sophisticated algorithms categorize objects with precision.

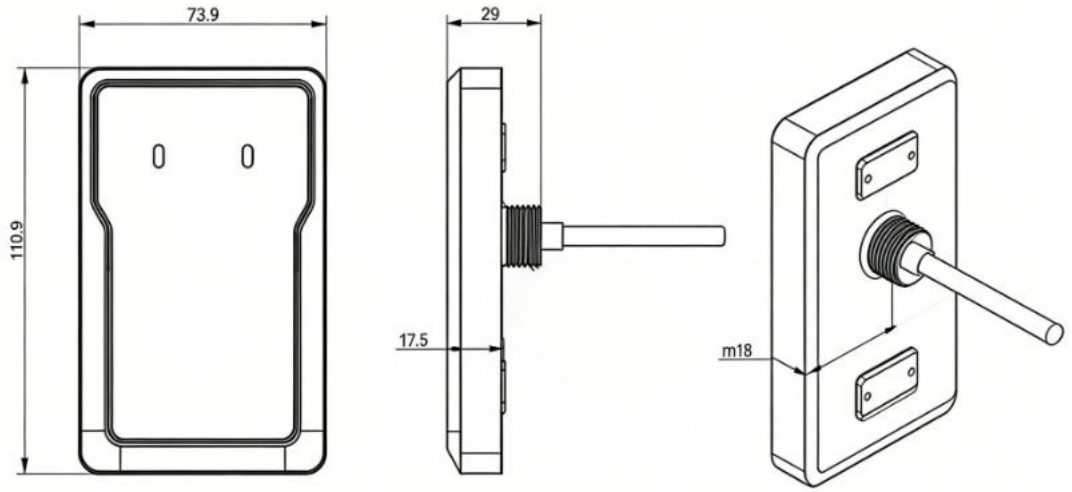
- Safety First: Identifies pedestrian "micro-doppler" signatures to prevent injuries
- Adjustable Zones: Digital configuration of detection length and width via software

## Technical Specifications

| | |
|---|---|
| Model | RD79-6M |
| Working Frequency | 79～81GHz |
| Detection zone length | 1-6m |
| Detection zone width | 0.5–1.5 meters to the right and 0.5–1.5 meters to the left of the central line |
| Interface | 4G（optional）、Bluetooth 5.0、 RS485 |
| Response Time | ≤ 100ms |
| Supply Voltage | DC12~24V |
| Maximum Operating Current | 600mA |
| Average Power | 1.2W （@12V） |
| Size | 110.9*73.9*17.5mm |
| Protection Level | IP66 |
| Working Temperature | -40°C ~ ＋80°C |




## Dimensions




Unit: mm

**Vehicle Access Control**
- Boom Gates
- Sliding Gates
- Swing Gates
- Loop Detectors & Radars
- Tyre Spikes

**Pedestrian Access Control**
- Full Height Turnstiles
- Waist Height Turnstiles
- Speed Gates & Flap Barriers
- Motorised Pedestrian Gate Openers
- Retails & Supermarket Gates

**Access Control & Safety**
- Remote Wireless Controls
- Safety Beams & Light Curtains
- Sensors & Activation Switches
- Traffic Lights, Strobes & Sounders
- Card Reader Stands & Bollards

www.rotech.com.au | tel: +61 7 3205 1123 | email: info@rotech.com.au