



**Rocket Science
Technologies**



Picture for reference only, subject to actual product.

TraffiGate

Barrier Gate

Data Sheet - v1.0 - 2025

1. Key Features

- Adjustable operation speed (1.5s – 8s)
- Smooth soft-start & soft-stop
- Adjustable limit angles
- Manual operation in case of power failure
- Remote control (418 MHz, anti-copy, ≤50 m range)
- Integration ready: IR photocell, loop detector, radar inputs
- Counting (fleet) function
- Traffic light signal output
- Delay arm drop & auto-reverse on obstacle
- Arm auto-open during power off (optional with power storage)
- One-car-one-arm anti-tailgating function
- Collision warning (optional)

2. Technical Specifications

| | |
|-----------------------|--------------------------------------|
| Operating Temperature | -30 °C to +80 °C |
| Rated Voltage | DC 24V |
| Operating Speed | 1.5 – 8 seconds |
| Rated Current | 5A |
| Rated Power | 90 W |
| Motor Speed | 1850 rpm (no load), 1400 rpm (rated) |
| Torque | 59.6 N·m |
| Humidity | ≤ 85% |
| Protection Level | IP54 |
| Max Arm Length | 6 m |
| Remote Range | ≤ 50 m (open area) |

* Product information is subject to change without prior notice.

3. Safety Features

| | |
|---------------------------|--------------------------------------|
| Auto-Reverse | Arm opens when obstacle detected |
| Ground Sensing Anti-Smash | Arm won't fall if vehicle detected |
| Ground Sensing Priority | Always prioritises vehicle detection |
| Optional Foam/Rubber Arm | Reduces impact damage |
| Arm Lifting Priority | Lift command overrides closing |

4. Mechanical and Installation

| | |
|----------------|---|
| Cabinet | Powder-coated steel, IP54 rated |
| Boom Arm | Aluminium, up to 6 m (straight/round/with rubber strip) |
| Foundation | 150 mm larger than cabinet, 200 mm thick concrete base |
| Manual Release | Provided for emergencies |

5. Warranty and Maintenance

| | |
|-----------------------------------|--|
| MTBF (Mean Time Between Failures) | > 5 million cycles (with proper maintenance) |
| Maintenance | Monthly inspection of fasteners |
| | Spring balance check every 30,000 operations |
| | Professional wear inspection every 6 months |

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