



TGM-500™ + TGM-501™ Combined Gate Operator and Construction Standard *For installers seeking to self-certify compliance with The Gate Monitor Safety Standards.*

Gate Operator Safety Requirements (TGM-500™)

1. Manual Release

- Tool-free manual emergency release must be installed and clearly labeled.

2. Auto-Close Delay

- Auto-close systems must delay at least 5 seconds before movement begins.
- Optional: audible or visual warning during the delay.

3. Force Limitation

- Gate must exert no more than 40 lbs of continuous force.
- Startup surge must be under 75 lbs and last less than 1 second.

4. Sensor Inputs

- Operator must support photo eyes or safety edges. (N.C. Inputs)
- Must have a sensor input for both opening and closing directions.

Gate operators that use monitored safety inputs may be accepted as TGM-500™ compliant **if** they:

- Allow the use of safety sensors that perform equivalent safety functions.
- Allow full field testing and verification during installation.
- Do not require manufacturer-specific hardware to activate safety features.
- Meet all other functional requirements under this standard.

5. Sensor Response

- Gate must stop or reverse immediately when a safety device is triggered.

6. Power and Wiring

- Must have a power disconnect (plug, switch, or breaker).
- Terminals must be labeled.
- Surge protection must be built in or supported.

See TGM-501 Standard for gate construction safety information.



Gate Construction Safety Requirements (TGM-501™)

1. Frame Strength

- Gate must resist flex, sag, or collapse under power.

2. Bottom Clearance

- Gate must maintain ≤ 4 inches of clearance from the ground.

3. Gap and Infill

- No gaps over 2.25 inches allowed anywhere on or around the gate entrapment areas.
- Tail sections must be infilled to prevent climb-through or reach-through.

4. Travel Stops and Fall Protection

- Physical stops required at open and closed positions.
- Gate must be mounted to prevent tipping beyond 45 degrees in failure.

5. Roller and Track Guarding

- All exposed rollers must be shielded.
- Tracks, chains, or racks must be enclosed or located in protected zones.

6. Pinch Point Elimination

- Hinges, arms, and slide systems must not expose pinch or crush zones.

7. Decorative Safety

- Sharp elements must be safety-capped or located 8 feet or higher.

Installer Self-Certification Form

Project Name: _____

Gate Type (swing/slide/lift): _____

Installer/Company: _____

Date: _____

I affirm that the gate operator and physical gate meet all applicable TGM-500™ and TGM-501™ requirements listed above.

Signature: _____

Field Test Passed: ☐ Yes ☐ No
