Swing Gate Requirements

Only install the operator on gates used for vehicular traffic. Be sure to direct pedestrians to a separate entry and exit. Refer to the illustrations. The gate site must be designed so persons do not come in contact with the vehicular gate while it is moving. Signs must be posted to warn pedestrians to stay clear of the gate’s entire travel path. A separate pedestrian entry/exit must be clearly visible and promote pedestrian usage.

Hinge Mount Location: Entrapment Considerations

If distance is greater than 4 inches (10 cm), entrapment protection in this area is required.

If distance is less than 16 inches (41 cm), entrapment protection in this area is required.

Slide Gate Requirements

Only install the operator on gates used for vehicular traffic. Be sure to direct pedestrians to a separate entry and exit. Refer to the illustrations. The gate site must be designed so persons do not come in contact with the vehicular gate while it is moving. Signs must be posted to warn pedestrians to stay clear of the gate’s entire travel path. A separate pedestrian entry/exit must be clearly visible and promote pedestrian usage.

Base of Swing & Slide Gates:

Gates must have smooth bottom edges; no protrusions should exist. If gate hardware or sensors protrude, they must have smooth surfaces free of any sharp cutting edges that do not exceed ½ inch (13 mm) beyond the base of the gate.

Screened Mesh

In the illustration below, the gap between vertical bars is non-compliant. It poses a safety hazard if it is 2-¼ inches (57 mm) or wider.

A screened mesh has been added to comply with ASTM F2200 and UL325 gate standards.
A gap (measured horizontally, parallel to the roadway)

Protective screen mesh to guard openings from the

Physical gate stops to avoid over-travel in both

SLIDE GATES:

•

Where applicable, these include the following:

entrapment protection devices are connected and

OPERATE your gate system ONLY when all necessary

information and safety requirements.

More Information:

SAFETY

INJURY OR DEATH!

A MOVING GATE CAN CAUSE SERIOUS

INJURY OR DEATH!

It is the owner's and user's responsibility to be aware of

gate system and take appropriate steps to reduce the risk

their gate operator's manual as it provides more details and

safety considerations than can be supplied in this brochure.

NOTE: All automatic projection devices are to be used

as a means of protecting pedestrians when openings are

created in automated gate systems for vehicular traffic.

In order to provide maximum safety, the guidelines and

requirements are based on recommendations made in

automated gate systems and are not intended to replace

standardized or local codes. The illustrations and callouts in

this brochure show the basics for gate system compliance.

BE SAFE!

Automated vehicular gate systems provide user

convenience and security. However, because these

machines can produce high levels of force, it is imperative

that you review all safety instructions found in the operator's manual.

BE AWARE:

Make your gate system is installed and maintained according to the manufacturer’s instructions. Make sure your installer adheres to UL 325 and ASTM F2200 standards discussed in this brochure and in the Important Safety Instructions found in the operator’s manual.

DO:

• REVIEW the illustrations found in this brochure for more information and safety requirements.

• OPERATE your gate system ONLY when all necessary entrapment protection devices are connected and working properly. Examples of these devices include:
  - Edge sensors
  - Photoelectric sensors (e.g. photo eyes)
  - Proper adjustment of the inherent sensing system

FOLLOW ASTM F2200 standard for automated gates. Where applicable, these include the following:

ALL GATE TYPES:

• No protrusions along the bottom of the gate.

• Fall-over protection to prevent the gate from falling when gate is detached from supporting hardware.

SLIDE GATES:

• Covers for all exposed weight bearing rollers and pinch points that exist less than 8 feet (2.5 m) above grade.

• Physical gate stops to avoid over-travel in both directions.

• Protective screen mesh to guard openings from the gate’s base support to a minimum height of 6 feet (1.8 m) above the ground. This must prevent a sphere of 2-¼ inches (57 mm) from passing through any opening in the gate or adjacent fence (the portion covered in the gate’s open position). Refer to the illustrations.

• A gap (measured horizontally, parallel to the roadway) between a fixed stationary object nearest the roadway and the gate frame shall not exceed 2-¼ inches (57 mm) when opened or closed.

PRECAUTIONS FOR GATE SYSTEMS:

ENTRAPMENT ZONE HAZARDS:

Body parts may become entrapped between a gate and a stationary object when the gate moves, which can result in serious injury or death. Make sure pedestrians stay clear of the gate path and areas where gate motion is close to stationary objects.

PINCH POINT HAZARDS:

• In open roller slide gates, severe injury can occur when hands and fingers get caught in the slide gate rollers. Feet can be injured between the bottom of the gate and bottom rollers. Make sure roller guards are installed to cover these pinch points.

• A swing gate's opening mechanism may have arms that can overlap with a scissoring effect, which can result in serious injury. Make sure pedestrians stay clear of the gate path and the opening mechanism, especially when the gate is in motion.

CRUSH HAZARDS:

In picket gates, body parts positioned between the bars, when the gate begins to move, can result in serious injury or death. Make sure openings are covered or screened and gaps are filled to prevent persons from reaching through, and/or passing through the gate.

SAFETY CHECKLIST:

• Automated gates are for vehicular use only; provide and maintain walkways and signs to direct pedestrians to a separate walk-through entrance.

• Clearly display WARNING SIGNS on both sides of the gate in clear view.

• Never let children operate or play with gate controls.

• Keep all remote controls, especially radio transmitters, away from children. DO NOT allow children to play on or around the gate or gate operator.

• Make sure all access control devices are mounted at least 6 feet (1.8 m) away from any moving parts. Create a safe design where a person need NOT reach over, under, through or around the gate to operate the access controls.

HORIZONTAL SLIDE GATE SYSTEM:

SWING GATE SYSTEM: