1603 TRAFFIC CONTROL
BARRIER GATE
AUTO SPIKE SYSTEM

• Commercial • Industrial • Maximum Security

- Mechanically links traffic control auto-spike to the operator arm
- Optional signal light (red/green) is synchronized with the barrier arm
- Optional warning sign warns drivers to proceed only when spikes are retracted
- DKS patent pending Loop Logic vehicular/pedestrian detection system
- 5 year limited factory warranty on operator
- 1 year limited warranty on tunnel sections, spike sections, and end cap

Automatic sequencing
when used in conjunction with slide or swing gate operators

Foam padding
available for added protection

DKS Loop Logic
it’s aware – even when they’re not

Drive extension
safety design helps prevent operator damage

ACCESS CONTROL SOLUTIONS
**1603 TRAFFIC CONTROL BARRIER GATE AUTO SPIKE SYSTEM**

1. **Operator**
   - 15.25" W x 43.5" H x 15.5" D (387mm W x 1105mm H x 394mm D)
   - 1/2 HP, 115 VAC *
   - Mechanically link traffic control auto-spikes to the operator arm.
   * High Voltage Kit: Allows the operator to be powered from 208, 230, 460 or 575 source voltage.

2. **Tunnel Section**
   - 20" W x 2" H x 18" L (508mm W x 50.8mm H x 457mm L)
   - Drive extension (18' (457mm)) is required to connect the operator to the spike section(s).
   - Tunnel section provides an extended connection from the operator to the spike section(s).
   - Tunnel sections can be mixed to create the desired length and are used when the 1603 is set back from the curb.

3. **Spike Section**
   - 20" W x 2" H x 36" L (508mm W x 50.8mm H x 914mm L)
   - Combination of spike sections / tunnel extensions should not exceed 12 feet in width.

4. **End Cap**
   - 20" W x 2" H x 7" D (508mm W x 50.8mm H x 177.8mm D)
   - Provides a smooth end to the spike section.

5. **Signal Light (option)**
   - 9.75" W x 21" H x 14" D (247mm W x 533mm H x 355mm D)
   - Includes lens shield
   - 115 VAC
   - 8" Red and Green lenses
   - 8000 hour / 67 watt traffic bulbs
   - Mounting bracket for easy attachment to the 1603 operator
   - 1 year limited warranty

6. **Warning Sign (option)**
   - 24" W x 24" H x 8" D (610mm W x 610mm H x 203mm D)
   - 115 VAC
   - Two 20 watt fluorescent lamps and one 150 watt flood lamp
   - Light sensor turns sign on at dusk, off at dawn
   - 2 year limited warranty
   - Traffic signal and/or warning sign must be used with this system.

7. **Barrier Arm**
   - 14-foot round (3") aluminum arm painted white with red/white visibility tape, MUTCD compliant.

8. **Barrier Arm Hardware Kit**

### Technical Features

**Mechanical**
- Primary Reduction is provided by a worm gear reduction system running in a continuous oil bath
- G90 galvanized steel housing, painted white rated NEMA 4x
- Fail-secure mechanical release method, and hand crank allows lowering of the spikes in the event of a power outage

**Options**
- DC powered convenience open system that will cause the arm to raise automatically in the event of a power outage
- Heater/fan kits for extreme weather conditions
- Loop Logic vehicular / pedestrian safety system: The system reverses barrier arm if person is detected, and lowers barrier arm if unauthorized vehicle enters. Additional protection to help prevent inadvertent accidents

**Electrical**
- Magnetic electronic limit controls
- Auto-close timer 1-23 seconds
- Up input memory buffer
- Down memory option
- Multiple up commands
- Ports for plug-in open (up) and reverse (down) loop detectors. DKS plug-in detectors only
- Ports for plug-in loop detectors
- Auto-sequenceing in conjunction with slide or swing
- Built-in power On/Off switch
- 115 VAC convenience outlet for accessory transformers
- Gate Tracker™ reporting output provides operator data to access control system (DKS 1833, 1835, 1837 or 1838 only)

**Miscellaneous**
- Environmental: 10°F to 115°F (-12°C to 46°C)
- Thermostatically controlled heater kit recommended for colder environments

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