1603 TRAFFIC CONTROL
BARRIER GATE
AUTO SPIKE SYSTEM

• COMMERICAL • INDUSTRIAL • MAXIMUM SECURITY

• Mechanically links traffic control auto-spikes 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

access control solutions
**1603 TRAFFIC CONTROL BARRIER GATE AUTO SPIKE SYSTEM**

**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.*

**Tunnel Section**
- surface mount  
20” W x 2” H x 18” L  
(508mm W x 50.8mm H x 457.5mm 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.

**Spike Section**
- surface mount  
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.

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

**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

**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.

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

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

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