1603 TRAFFIC CONTROL
BARRIER GATE
AUTO SPIKE SYSTEM

• Transfer box mechanically links the 1603 barrier operator to the traffic spikes
• Spike and tunnel sections are available in 3 foot sections
• End cap provides a smooth end to the spike section
• Optional signal light (red/green) is synchronized with the barrier arm
• Optional warning sign warns drivers to proceed only when spikes are retracted
• 5 year limited factory warranty on operator
• 1 year limited warranty on transfer box, 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, 230, 460 VAC *
• Mechanically links operator arm to the transfer box/spike system.
* 230 and 460 VAC units use a step-down transformer to achieve 115 VAC operating voltage.

Transfer Box
surface mount
15 W x 4 H x 15.5 D
(381mm W x 101.6mm H x 394mm D)
• Transfer box provides a mounting platform for the operator and links the operator to the spike units.

Tunnel Section
surface mount
20 W x 2 H x 36 L
(508mm W x 50.8mm H x 914mm L)
• Tunnel sections provide an extended connection from the transfer box to the spike sections.
• 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 or 1829mm L)
• Spike sections can be mixed to create the desired length. For example, 3’ sections can be combined for an overall 6’, 9’, or 12’ spike section.

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.

Barrier Arm
• 14-foot round (3”) aluminum arm painted white with yellow/black visibility tape.
• 14-foot 1x4 wood arm painted white with yellow/black visibility tape.

Signal Light (option)
9.75 W x 21 H x 14 D
(247mm W x 533mm H x 395mm 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.

WARNING:
Traffic control auto-spike systems are not intended to be used in areas where vehicular traffic is uncontrolled or crosses over the spikes at an angle other than 90°, or where traffic speeds may exceed 5 MPH. Speed bumps, warning signs and/or traffic signals must be used with auto-spike systems.

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.

Barrier Arm
• 14-foot round (3”) aluminum arm painted white with yellow/black visibility tape.
• 14-foot 1x4 wood arm painted white with yellow/black visibility tape.

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

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-sequencing 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

Access Control Solutions since 1948

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