SmartCycle SOLUTIONS

CSS 5.02

Barrier-Mounted Pull Box



The SmartCycle CSS 5.02

Barrier-Mounted Junction Lock System

It is a high-security enclosure designed for roadside and freeway installations, providing robust protection for critical lighting and electrical infrastructure. Built for environments where elevated access and visibility are essential, the system safeguards sensitive wiring from tampering, theft, and environmental exposure.

Constructed from durable, corrosion-resistant materials, the CSS 5.02 ensures reliable performance even in harsh conditions.

Equipped with SmartCycle's proprietary multi-factor authentication mechanism, the lock requires two or three distinct verification steps to prevent unauthorized access and maintain operational integrity.

This system combines advanced security with practical accessibility, making it ideal for transportation corridors, urban infrastructure, and high-risk zones.

Key Features

- Barrier-mounted security enclosure for freeway and roadside infrastructure.
- Electronic locking with app-based multi-factor authentication.
- Prevents wire theft, reducing maintenance costs and improving roadway safety.
- Constructed from structural-grade galvanized steel for long-term durability.
- Bluetooth-enabled for secure authorized access and system control.
- Corrosion-resistant finish suitable for urban, coastal, or high-traffic environments.
- Custom sizes and mounting configurations available to meet agency specifications.
- Locking Mechanism:
  - Proprietary electronic lock
  - App-based multi-factor authentication
- Power Supply: Proprietary C4 Power source that powers the device.

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Technical Specifications

PARAMETER	SPECIFICATION
DIMENSIONS	25 in Length, 12.25 in Width, 2.6 in Thickness
BASE MATERIAL	Structural-grade carbon steel (ASTM A36 / AISI 1018 or equivalent)
FINISH	Hot-dip galvanized per ASTM A123 / ISO 1461
OPTIONAL COATING	Powder coating or epoxy for enhanced corrosion resistance
LOCKING MECHANISM	Proprietary electronic lock with app-based multi-factor authentication
POWER SUPPLY	Proprietary C4 Power source that powers the device
INGRESS PROTECTION	IP65 or higher (dust-tight and water-resistant)
TEMPERATURE RANGE	−40 °C to +85 °C (−40 °F to +185 °F)
MOUNTING CONFIGURATION	Designed for secure attachment to standard traffic or safety barriers
VIBRATION RESISTANCE	Engineered for freeway barrier vibration conditions
SECURITY STANDARDS	Compliant with infrastructure protection guidelines
ENVIRONMENTAL STANDARDS	RoHS compliant (if applicable)

Advantages

- Protects lighting and electrical junctions from tampering and theft.
- Reduces maintenance and replacement costs for public infrastructure.
- Ensures consistent operation under severe weather and mechanical stress.
- Integrates secure access technology for operational efficiency.
- Enhances overall roadway safety and asset longevity.







Ordering Information

Model: CSS 5.02 — Barrier-Mounted Pull Box
Options: Standard or custom sizing; coating and hardware options available
Lead Time: 6–8 weeks typical production

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