

ACCUTECH 700029

Key Lock Switch | Centralized Wander Management Infrastructure Hub



PRODUCT OVERVIEW

The Accutech 700029 Key Lock Switch serves as a core hardware intelligence component within advanced wandering management and resident safety infrastructures. It is engineered to bridge the gap between physical perimeter sensors deployed at facility exits and localized control monitoring stations. By aggregating and processing manual reset and authorization signals from protected entry points, it eliminates the operational complexity of managing individual entry points. This centralized topology ensures that large-scale senior care, nursing home, memory care, and hospital facilities maintain instantaneous, real-time situational awareness.

Deployed directly at high-traffic egress boundaries, critical fire doors, and restricted access zones, the 700029 module channels secure mechanical key override telemetry. This proactive routing method eliminates communication bottlenecks and guarantees that complex localized actions—such as authorized staff bypass, secure visitor access, and localized security overrides—are instantly synchronized with perimeter sensors. This active tracking processing ensures absolute protection across expansive hospital wings, long care facility corridors, and high-risk infant protection zones by safeguarding exposed external egress routes from environmental wear and unauthorized passage.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 700029 Key Lock Switch to act as the primary external security access control and localized override node. The hardware must support direct integration configurations to synchronize active bypass states directly with peripheral zone controllers.
- **Perimeter Infrastructure Protection:** The remote switch assembly shall incorporate a durable, commercial-grade structural design explicitly engineered to sustain continuous clinical exposure, operating reliably across extreme temperature variations, direct moisture impacts, and high-humidity environmental conditions.
- **Access and Control:** The device front interface shall feature a heavy-duty, mechanical key cylinder layout to allow authorized clinical staff, security personnel, and facility supervisors to execute localized door bypass commands and alarm resets directly at the security boundary.

- **Enclosure and Durability:** The electronics assembly shall be protected inside a ruggedized, vandal-resistant commercial-grade housing optimized for flush-mount or surface-mount terminal configurations on standard single-gang electrical boxes or architectural door frames.
- **System Interoperability:** The key lock switch architecture must feature validated native compatibility for direct low-voltage data connection with Accutech environmental safety platforms, ensuring non-latent signaling and secure credential validation across the facility's dedicated security network.

SYSTEM COMPONENTS

The 700029 Key Lock Switch incorporates several fundamental integrated sub-modules and physical connection layouts:

- **Weather-Sealed Digital Logic PCB:** The primary multi-layer switch contact assembly coated with protective conformal sealing compounds to isolate electronic components from moisture and dust intrusion.
- **Commercial-Grade Key Tumbler Cylinder:** Ruggedized, high-durability mechanical lock assembly featuring matching physical tumbler cut lines and a heavy-duty maintained alternate-position mechanism.
- **Heavy-Duty Relay Interface Module:** Integrated dual-state maintained contact pathways dedicated to managing secondary perimeter alerts, localized zone triggers, magnetic locks, or local bypass responses.
- **Low-Voltage Terminal Backplane:** Multi-position wire terminal block or pre-wired lead pigtail array designed for clean, reliable power, ground, and data activation communication line termination.
- **Vandal-Resistant Brushed Faceplate:** Heavy-duty commercial-grade stainless steel single-gang wall plate providing structural impact protection and integrated grounding paths.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates manual perimeter override and alarm reset states down to a single monitoring focal point, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **Secure Mechanical Key Validation:** Features a high-security tumbler assembly designed to limit authorization exclusively to credentialed staff, preventing unauthorized alarm silencing or unmonitored door deactivation.
- **Sustained Maintained Action:** Employs a maintained-contact latching configuration behind the key turn matrix to guarantee stable state transitions, allowing the system to remain securely in an authorized bypass mode until manually turned back.
- **Vandal-Resistant Construction:** Built using impact-resistant structural components and a heavy-duty stainless steel faceplate that safeguard internal electronic processing paths against high-traffic workspace hazards and deliberate tampering.
- **Validated Platform Interoperability:** Engineered for total compatibility out-of-the-box with established Accutech security environments, ensuring a unified approach to facility patient protection.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	Maintained Key Lock Switch
Part Number / SKU	700029
Structural Profile Type	Standard C-Channel Geometry Base
Enclosure Protection Rating	Single-Gang Flush-Mount / Vandal-Resistant Faceplate
Operating Input Voltage	Passive Loop Switch (Managed Low-Voltage Control Paths via Parent Controller)

Interface Link Mechanism

Screw Terminals / Hardwired Lead Pigtails for Power, Ground, and Signal Buses

Switch Operation Type

Maintained Latching Operation (Key Removable in On/Off Positions)

Wander System Compatibility

Accutech ResidentGuard Series Access and Security Environments

Primary Target Environments

Main Entrances, Staff Corridors, Restricted Clean Rooms, Perimeter Egress Frames

COMPLIANCE AND CERTIFICATION

- **FCC Status:** Designed and certified to meet FCC Part 15 regulations regarding digital device shielding. This guarantees that multi-zone switching and hardwired loop paths do not cause or sustain harmful electromagnetic interference with nearby diagnostic medical devices or critical patient networks.
- **UL Listing:** Engineered and assembled using components compliant with UL safety classifications for low-voltage signal appliances, exterior access control equipment, and healthcare facility alert instrumentation.
- **RoHS Compliance:** Formulated in alignment with environmental protection directives, ensuring that the assembly, internal solder joints, and electronic trace configurations restrict the use of lead, mercury, and other hazardous materials.