Accutech 762115 Microrelay

Microrelay | Centralized Wander Management Infrastructure Hub

PRODUCT OVERVIEW

The Accutech 762115 Microrelay 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 automated security signals from monitoring systems, 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 main entrances, stairwell doors, elevators, and restricted service exits, the 762115 module channels automated communication and telemetry to connected equipment. 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 762115 Microrelay 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.
- **Healthcare Environment Protection:** The remote relay assembly shall incorporate a durable, compact 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 signal path to allow authorized clinical staff, security personnel, and facility supervisors to execute localized door bypass commands and alarm resets directly at the physical 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 inside door frames, junction boxes, or controller enclosures.
- **System Interoperability:** The microrelay 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 762115 Microrelay incorporates several fundamental integrated sub-modules and physical connection layouts:

- Conformal-Coated Digital Logic PCB: The primary multi-layer circuit assembly coated with protective compounds to isolate electronic components from moisture and dust intrusion.
- High-Speed Signal Isolation Matrix: Ruggedized, high-durability internal processing layout featuring integrated low-power trace routing to achieve accurate and rapid communication between system nodes.
- Heavy-Duty Relay Interface Module: Integrated dual-state SPDT relay pathways dedicated to managing secondary electrical strikes, maglocks, auxiliary notification systems, or local bypass triggers.
- Low-Voltage Terminal Backplane: Multi-position wire terminal block array designed for clean, reliable power, ground, and communication control line termination.
- Vandal-Resistant Outer Chassis: Heavy-duty commercial-grade composite or metal alloy protective enclosure providing structural impact protection and integrated grounding paths.

FEATURES AND BENEFITS

- Centralized Boundary Awareness: Consolidates remote exit and equipment communication states down to a single monitoring focal point, greatly simplifying hardware footprints and reducing response times for clinical teams.
- Compact Integration Profile: Features an advanced low-profile design engineered to install smoothly inside space-constrained locations, making it ideal for retrofitting existing security and wander management systems.
- Automated Logic Response: Employs rapid signal-handling paths behind the terminal layout to guarantee flawless automated perimeter locking and error-free operation when a monitored event occurs.
- Workflow Workload Reduction: Built using dependable structural components that automate monitoring processes, minimizing the need for manual staff intervention and lowering overall healthcare workspace hazards.
- 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	Micro UT Control Relay / Microrelay
Part Number / SKU	762115
Operating Input Voltage	12V DC / 24V DC Managed Low-Voltage Control Paths
Relay Contacts Configuration	SPDT Dry Contact Relays (Automated Lock & Notification Layouts)
Interface Link Mechanism	Hardwired Terminals for Power, Ground, and Control Signal Buses

Wander System Compatibility	Accutech ResidentGuard Series Access and Security Environments
Primary Target Environments	Main Entrances, Stairwells, Elevators, Restricted Service Exits, Pediatric Wards

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 relay 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, 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.