ACCUTECH 700073

External Delayed Egress Controller | Centralized Wander Management Infrastructure Hub

PRODUCT OVERVIEW

The Accutech 700073 External Delayed Egress Controller 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 signals from standardized delayed egress electromagnetic locking hardware, 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 inside dedicated structural junction enclosures or central low-voltage control panels near critical exit lanes, the 700073 channels incoming lock status telemetry over a single high-integrity bus. This proactive routing method eliminates communication bottlenecks and guarantees that complex localized data—such as mandatory 15-to-30 second door release delays, magnetic bond status, door position tracking, and unauthorized egress attempts—is instantly translated into visible alerts. This active data processing ensures absolute protection across expansive hospital wings, long care facility corridors, and high-risk infant protection perimeters by safely containing residents while strictly adhering to mandatory life safety egress timelines.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 700073 External Delayed Egress Controller to act as the primary signaling control interface node between external delayed egress door containment hardware and the master monitoring console. The module must support native relay translation configurations to synchronize active lock and countdown states directly with perimeter sensor paths.
- **Delayed Egress Management:** The controller must incorporate dedicated onboard logic to manage standard NFPA-compliant delayed egress countdown sequences (15 seconds standard, 30 seconds optional), initiating an immediate local acoustic-visual alert when physical pressure is applied to the exit door while maintaining structural perimeter containment during the countdown interval.
- **Life Safety Overrides:** The system must incorporate direct hardwired interfaces for building fire alarm control panel tie-ins. The mechanism shall support automatic physical releasing parameters, instantly dropping all delayed egress countdowns and magnetic holding forces to 0 lbs upon fire panel activation, building power failures, or dedicated remote emergency override inputs.

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• **Data Communications:** The device shall incorporate heavy-duty terminal connection layouts to maintain data integrity and rapid, non-latent alarm signaling to peripheral telemetry and notification stations during an active containment trigger or authorized bypass cycle.
• **Enclosure and Durability:** The electronics assembly shall be protected within a compact, commercial-grade rigid housing or sub-assembly optimized to withstand structural building vibrations and facility maintenance workflows.
• **Modular Expandability:** The architecture must accommodate seamless multi-door expansion paths, allowing technicians to link secondary lock loops back to the primary zone controller without demanding complete field hardware redesigns.

SYSTEM COMPONENTS

The 700073 External Delayed Egress Controller incorporates several fundamental integrated sub-modules and physical connection layouts:

• **Main Control Logic PCB:** The primary multi-layer circuit assembly managing delayed egress countdown timers, low-voltage switching lines, and signal conversion parameters.
• **Heavy-Duty Relay Interface Module:** Integrated dual-state SPDT relay pathways dedicated to managing secondary alert triggers, auxiliary sounders, fire alarm overrides, or local CCTV sweeps.
• **Centralized Terminal Block Array:** Multi-point screw terminal layouts configured for clean, low-voltage wire containment from door switches, push bars, power lines, and reset keypads.
• **Integrated Acoustic Sounder:** Onboard high-output piezo buzzer configured to emit immediate, localized audio indicators during unauthorized egress countdown attempts.
• **Compact Guard Enclosure:** Protective rigid backing layout engineered to shield sensitive solid-state timing components from physical disruption or stray static fields.

FEATURES AND BENEFITS

• **Streamlined Control Integration:** Consolidates discrete delayed egress states down to a single monitoring focal point, greatly simplifying hardware footprints and reducing cable infrastructure requirements.
• **Real-Time Guard Verification:** Supplies continuous telemetry and alarm reporting data from across the property, letting staff intercept unauthorized zone entries immediately.
• **Code-Compliant Life Safety:** Automatically releases all physical door containment instantly during fire emergencies or power losses, ensuring open, fail-safe emergency exit routing.
• **Preventative Nuisance Delay Protection:** Features a highly adjustable initiation circuit to differentiate between accidental door bumps and deliberate, unauthorized exit attempts by residents.
• **Validated Platform Interoperability:** Engineered for total compatibility out-of-the-box with standard delayed egress magnetic hardware configurations under the Accutech security environment.
• **Industrial Structural Protection:** The ruggedized circuit housing safeguards internal electronic processing paths against high-traffic workspace hazards.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	External Delayed Egress Controller Module
Part Number / SKU	700073
Countdown Timing Configuration	NFPA Compliant 15-Second Standard / 30-Second Extended Delay

Operating Input Voltage	12V DC / 24V DC Managed Low-Voltage Control Paths
Relay Contacts Configuration	SPDT Dry Contact Relays (Form C Output Layouts)
Interface Link Mechanism	Hardwired Terminals for Power, Ground, Reader, and Signal Buses
Wander System Compatibility	Accutech ResidentGuard Series Access and Security Environments
Chassis Construction	Industrial Solid-State Control Module Backing
Primary Target Environments	Hospitals, Long-Term Care, Assisted Living, Memory Care

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, auxiliary locking control interfaces, special locking arrangements, 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.

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