ACCUTECH 700228

3101 Delayed Egress Lock | Patient Wander Management Heavy-Duty Interlocking Node

PRODUCT OVERVIEW

The Accutech 700228 3101 Delayed Egress Lock is an enterprise-grade, high-strength electro-magnetic locking assembly engineered to integrate seamlessly with specialized healthcare security infrastructures, including resident wander management and life safety tracking frameworks. Designed to physically secure, monitor, and manage critical facility exit lanes and perimeter doors, this fully self-contained physical security node balances immediate clinical elopement containment with rigid building safety code requirements. When an unauthorized exit attempt occurs, the system initiates an adjustable, microprocessor-controlled time delay while maintaining full holding force to prevent unassisted resident egress.

Deployed across restricted access pathways, stairwells, and memory care wing boundaries, the 700228 lock utilizes a highly accurate, concealed egress sensor unaffected by external environmental factors such as wind or minor door misalignment. The lock features a high-volume internal audible alarm and multi-color LED diagnostics to provide caregivers with immediate clear visual and acoustic notification of an ongoing elopement attempt. This proactive containment hardware interfaces directly with local building fire panels and centralized control platforms to guarantee immediate structural fail-safe releasing during facility emergencies.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall furnish, install, and configure the Accutech 700228 3101 Delayed Egress Lock as a fully self-contained perimeter containment assembly where indicated on the plans. The locking hardware must feature an integrated digital processor to manage all local timing, alarm telemetry, and sensor feedback logic natively on the device.
- **Delay Egress Tracking:** Upon mechanical activation via physical pressure applied against the exit door, the lock assembly shall initiate a field-adjustable time delay sequence spanning up to 120 seconds (nominally configured for a standard 15- or 30-second egress delay cycle). During this active timing state, the device must maintain full physical holding force.
- **Local Signaling and Notification:** The hardware housing must incorporate an integral 87dB audible alarm horn along with high-visibility multi-color LED diagnostic telemetry to pulse localized alarms during the active countdown sequence. Upon expiration of the preset timer, the lock shall release and sound a continuous alarm tone until a manual system reset is executed.

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• **Life Safety Fail-Safe Overrides:** The system must incorporate direct hardwired interfaces for building fire alarm control panel tie-ins. The locking mechanism shall support automatic physical releasing parameters, instantly dropping magnetic holding force to 0 lbs upon fire panel alarm activation, building power failures, or dedicated remote system override inputs.
• **System Control and Management:** An on-board physical keyswitch assembly shall be built into the lock housing to facilitate direct manual system reset, localized nuisance delay verification adjustments, and temporary operational bypass commands by authorized clinical staff.

SYSTEM COMPONENTS

The 700228 Delayed Egress Lock configuration comprises the following hardware modules and physical interface elements:

• **Electro-Magnetic Lock Chassis:** Heavy-duty, surface-mounted maglock housing featuring an integrated microprocessor controller board and a concealed optical door sensor.
• **Armature Plate Assembly:** Precision-machined steel striking armature kit with specialized pivoting mounting hardware designed to handle minor door sagging or warpage.
• Integrated Signaling Electronics: On-board 87dB piezo acoustic horn and dual-state multi-color LED notification indicators.
• **On-Board Control Keyswitch:** Heavy-duty physical barrel key interface mounted directly on the lock housing for localized reset and manual bypass operations.
• **Installation Fastener Pack:** Complete set of high-tensile structural mounting hardware, Fas-Trak baseplate assemblies, alignment templates, and security fasteners.
• **Interconnect Wiring Interface:** Standardized multi-conductor, low-voltage internal connection block optimized for clean fire panel and wander management system integrations.

FEATURES AND BENEFITS

• **Robust High-Strength Containment:** Delivers up to 1200–1500 lbs of physical magnetic holding force to reliably withstand forced elopement or unauthorized exit attempts by disoriented residents.
• **Intelligent Nuisance Delay Settings:** Features selectable 1- or 3-second nuisance delay parameters to prevent accidental alarm triggers or unnecessary system locks from casual door contact.
• **Environmentally Resilient Sensor:** Leverages a specialized concealed optical sensor unaffected by common building settling, wind pressure, or door alignment shifts, eliminating frequent false alarms.
• **Complete On-Board Functionality:** Utilizes an entirely self-contained processing design that coordinates delays, sounders, and lock states without needing external control enclosures.
• **Life-Safety Emergency Release:** Auto-sensing low-voltage lines drop all holding power instantly during fire panel trips or power drops, securing open code-compliant emergency exit routing.
• **Simplified Multi-System Integration:** Provides clean built-in relay options for straightforward connection to Accutech wander prevention systems, nurse call stations, and local CCTV triggers.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	3101 Delayed Egress Lock
Part Number / SKU	700228

Physical Holding Force	1200 lbs to 1500 lbs Holding Threshold
Operating Input Voltage	12V to 24V AC/DC Auto-Sensing Operation
Average Active Current Draw	300mA @ 12VDC / 254mA @ 24VDC
Maximum Peak Current Draw	450mA Maximum Load
Delay Egress Timer Range	0 to 120 Seconds (Field-Selectable 15/30s Defaults)
Localized Audible Indicator	On-Board 87dB Piezo Acoustic Alarm Horn
Interconnect Cable Requirement	6-Conductor, 18-Gauge Shielded Cabling
Chassis Build Finish	Architectural Satin Aluminum Premium Metal Finish
Appliance Physical Weight	11.0 lbs to 11.5 lbs Total Weight Assembly
Primary Core Compatibility	Accutech ResidentGuard LS 2400 / LC 1200 Infrastructure

COMPLIANCE AND CERTIFICATION

- **FCC Status:** Fully compliant with FCC Part 15 regulations for digital shielding, ensuring clean internal circuit paths that do not introduce interference or block sensitive clinical communication frequencies.
- **UL Listing:** Assembled using electronic and magnetic sub-components manufactured to comply with low-voltage UL life safety egress standards, auxiliary lock regulations, and healthcare data instrumentation metrics.
- **RoHS Compliance:** Fully compliant with Restriction of Hazardous Substances (RoHS) environmental guidelines, verifying the elimination of hazardous heavy metals across all internal coils, logic boards, and structural aluminum housings.