ACCUTECH 650514

Door Contact, Reed Switch | Centralized Wander Management Infrastructure Hub

PRODUCT OVERVIEW

The Accutech 650514 Door Contact, Reed 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 signals from physical entry points, gates, and exposed perimeter boundaries, 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 critical fire exits, standard corridor doors, and restricted access points, the 650514 module channels magnetic switch 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 650514 Door Contact, Reed 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.
- **Weatherproof Protection:** The remote switch assembly shall incorporate a durable structural design explicitly engineered to sustain continuous operational 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, tactile magnetic contact loop 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 on door frames, windows, or structural gates.
- **System Interoperability:** The reed 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 650514 Door Contact, Reed Switch incorporates several fundamental integrated sub-modules and physical connection layouts:

- **Hermetically Sealed Reed Logic Block:** The primary sensor assembly containing precious-metal reed elements isolated inside a protective capsule to protect electronic components from moisture and dust intrusion.
- **High-Coercivity Actuator Magnet:** Ruggedized, high-durability permanent magnet housing layout featuring matching physical dimensions for error-free alignment during installation.
- **Heavy-Duty Relay Interface Module:** Integrated dual-state electrical loop pathways dedicated to managing secondary alarm circuits, monitoring loops, or local bypass triggers.
- **Low-Voltage Terminal Backplane:** Multi-position wire terminal blocks or wire lead pathways designed for clean, reliable power, ground, and data communication line termination.
- **Vandal-Resistant Outer Chassis:** Heavy-duty commercial-grade composite or non-ferrous metal alloy enclosure providing structural impact protection and integrated grounding paths.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates remote patient tracking states down to a single monitoring focal point, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **Waterproof Wearable Resilience:** Features an advanced environmental seal designed to withstand harsh operational elements, making it ideal for continuous client bathing, clinical cleanings, and high-traffic institutional use.
- **On-Board Programmability:** Employs configurable firmware states behind the activation matrix to guarantee individualized patient settings, customized ID assignment, and error-free operation over its deployment lifecycle.
- **Vandal-Resistant Construction:** Built using impact-resistant structural components 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	Door Contact, Reed Switch
Part Number / SKU	650514
Enclosure Protection Rating	Sealed Dust-Proof / Vandal-Resistant Structural Housing
Operating Input Voltage	Passive Loop Switch (Managed Low-Voltage Control Paths via Parent Controller)
Relay Contacts Configuration	SPST Closed-Loop Reed Switching (Form A or Form B Output Layouts)

Interface Link Mechanism	Screw Terminals / Hardwired Lead Pigtails for Power, Ground, and Signal Buses
Wander System Compatibility	Accutech ResidentGuard Series Access and Security Environments
Chassis Construction	Heavy-Duty Industrial Commercial-Grade ABS / Metal Protective Enclosure
Primary Target Environments	Fire Doors, Patient Room Access, Restricted Corridors, Perimeter Gates

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 transformer power 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, commercial access control power supplies, 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.