

ACCUTECH 700209

DE Lock Ball Sensor | Centralized Wander Management Infrastructure Hub



PRODUCT OVERVIEW

The Accutech 700209 DE Lock Ball Sensor 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 structural alignment signals from delayed egress mechanical frame latching and lock assemblies, 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 within physical door headers, frames, or magnetic locking armature tracks, the 700209 module channels mechanical positioning and door containment telemetry. This proactive routing method eliminates communication bottlenecks and guarantees that complex localized data—such as true physical lock engagement, mechanical gate alignment, and latch position status—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 preventing false secure status readings when a door is closed but not mechanically locked.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 700209 DE Lock Ball Sensor to act as the primary structural engagement monitor and position verification node within critical perimeter door assemblies. The hardware must support direct integration configurations to synchronize physical lock alignment status directly with remote perimeter zone controllers.
- **Mechanical Sensing Interface:** The sensor assembly must incorporate a high-durability, spring-loaded roller ball mechanical trigger mechanism designed to translate physical strike alignment into an electrical connection state change without requiring localized software processing at the frame opening.
- **Data Communications:** The device shall incorporate heavy-duty terminal or wire lead connection layouts to maintain data integrity and rapid, non-latent alarm signaling to peripheral telemetry and notification stations during an active containment trigger or unlatched frame state.

- **Enclosure and Structural Integration:** The electronics and mechanical contact assembly shall be protected inside a heavy-duty, commercial-grade rigid housing optimized for flush-mount insertion directly into mortised framing cutouts, architectural headers, or secure locking hardware channels.
- **System Interoperability:** The sensor architecture must feature validated native compatibility for direct low-voltage data connection with Accutech environmental safety platforms, ensuring non-latent signaling across the facility's dedicated security network.

SYSTEM COMPONENTS

The 700209 DE Lock Ball Sensor incorporates several fundamental integrated sub-modules and physical connection layouts:

- **High-Durability Ball Actuator:** Precision-machined, spring-loaded rolling ball trigger sub-assembly engineered to withstand continuous physical compression and high-frequency doorway impacts.
- **Solid-State Contact Configuration:** Internal heavy-duty electrical switch pathways configured to execute precise dual-state open/closed loop status translation upon ball compression.
- **Pre-Wired Low-Voltage Leads:** Heavy-duty copper conductor wire harness configured for clean integration and low-voltage field termination back to adjacent zone controllers.
- **Commercial Flush-Mount Housing:** Cylindrical or plate-mounted rigid composite or metal alloy protective sleeve designed for seamless, concealed mounting inside architectural frames.
- **Structural Retention Hardware:** Integrated fastening clips or threaded collar assemblies engineered to maintain structural placement and spacing adjustments over time.

FEATURES AND BENEFITS

- **Centralized Alignment Awareness:** Consolidates remote mechanical locking feedback down to a single monitoring focal point, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **True Mechanical Lock Verification:** Supplies continuous physical latch status reporting, preventing the system from registering a door as "secure" unless the lock is fully aligned and engaged.
- **Minimization of Nuisance Alarms:** Eliminates false door alerts caused by wind chattering, slight frame warping, or minor structural movement by validating deep mechanical engagement.
- **Low-Profile Architectural Integration:** Features a compact, concealable flush-mount layout that sits completely hidden within the door frame to preserve clean facility design lines and prevent patient tampering.
- **Validated Platform Interoperability:** Engineered for total compatibility out-of-the-box with established Accutech delayed egress controllers and access environments, ensuring a unified approach to facility patient protection.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	DE Lock Ball Sensor (Mechanical Latch Monitor)
Part Number / SKU	700209
Sensing Switch Configuration	Spring-Loaded Mechanical Roller Ball Contact (Dry Contact)
Operating Input Voltage	Low-Voltage Signal Paths (Managed via Connected Controller)
Interface Link Mechanism	High-Integrity Pre-Wired Multi-Conductor Lead Configuration

Mounting Form Configuration

Flush-Mount Mortise Insertion / Concealed Frame Installation

Wander System Compatibility

Accutech ResidentGuard Series Access and Security Environments

Chassis Construction

Heavy-Duty Industrial Commercial-Grade Housing

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 passive contact switching and internal logic 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 monitoring devices, 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.