

ACCUTECH 500010

1/4 Plate Spacer | Centralized Wander Management Infrastructure Hub



PRODUCT OVERVIEW

The Accutech 500010 1/4 Plate Spacer 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 and mounting depth parameters at protected entry points, 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 high-traffic egress boundaries, concrete-backed walls, uneven door frames, and restricted access zones, the 500010 module channels precise mechanical offset and stabilization 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 500010 1/4 Plate Spacer 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.
- **Perimeter Infrastructure Protection:** The remote mounting assembly shall incorporate a durable, 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 physical interface shall feature a heavy-duty, single-gang structural spacing layout to allow authorized clinical staff, security personnel, and facility supervisors to execute localized door bypass commands and alarm resets directly at the security 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 standard single-gang electrical boxes or architectural door frames.
- **System Interoperability:** The local alarm 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 500010 1/4 Plate Spacer incorporates several fundamental integrated sub-modules and physical connection layouts:

- **Conformal Environmental Protection:** The primary single-gang structural extension assembly coated with protective high-durability compounds to isolate electronic components from background moisture and wall dust intrusion.
- **Commercial-Grade Alignment Matrix:** Ruggedized, high-durability structural body featuring universal single-gang mounting configurations and standard electrical box alignment channels.
- **Pass-Through Wire Pathway:** Integrated wide-clearance routing channels dedicated to managing secondary perimeter lines, localized zone loops, power feeds, or local bypass cables.
- **Low-Voltage Hardware Backplane:** Multi-position mechanical screw-recess array designed for clean, reliable faceplate alignment and structural device installation line termination.
- **Vandal-Resistant Outer Chassis:** Heavy-duty commercial-grade composite or polymer spacing block providing structural impact protection and integrated structural grounding paths.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates manual perimeter mounting tolerances and depth extension states down to a single monitoring focal point, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **Precision Quarter-Inch Offset:** Features a 1/4-inch depth-extension profile engineered to provide necessary clearance behind faceplates, preventing pinched wires and component crowding in shallow backboxes.
- **Surface Correction and Stabilization:** Employs a rigid planar seating layout behind the wall plate matrix to guarantee seamless flush fitting on uneven clinical surfaces, masonry, or concrete walls.
- **Vandal-Resistant Construction:** Built using impact-resistant structural components and a heavy-duty single-gang profile 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	1/4" Single-Gang Plate Spacer
Part Number / SKU	500010
Spacer Depth Dimension	0.25 Inches (1/4") Extension Profile
Enclosure Protection Rating	Single-Gang Flush-Mount / Vandal-Resistant Spacer
Operating Input Voltage	Passive Structural Hardware (Managed Low-Voltage Control Paths via Parent Component)

Interface Link Mechanism

Universal Pass-Through Channels for Power, Ground, and Signal Buses

Wander System Compatibility

Accutech ResidentGuard Series Access and Security Environments

Chassis Construction

Heavy-Duty Industrial Commercial-Grade Lightweight Composite Polymer

Primary Target Environments

Shallow Backboxes, Uneven Drywall, Concrete Walls, Perimeter Egress Frames

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 enclosed hardwired loop 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, exterior access control equipment, and healthcare facility alert instrumentation.
- **RoHS Compliance:** Formulated in alignment with environmental protection directives, ensuring that the assembly, internal structural materials, and plastic trace configurations restrict the use of lead, mercury, and other hazardous materials.