ACCUTECH 200665 LS2400 POLYCARB STAND OFF

Structural Isolation Spacer | Centralized Wander Management Infrastructure Hub

PRODUCT OVERVIEW

The Accutech 200665 LS2400 Polycarb Stand Off 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 protective physical shielding metrics and maintaining strict dimensional tuning separation at protected 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 beneath peripheral transceivers, door frame sensor modules, and restricted access zones, the 200665 module channels structural isolation and operational frequency protection. 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, metal-clad door frame signal interference, and unauthorized passage.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 200665 LS2400 Polycarb Stand Off to act as the primary external security access control and localized override node structural isolation base. The hardware must support direct integration configurations to synchronize active bypass states and precise mounting depth offsets directly with peripheral zone controllers.
- **Perimeter Infrastructure Protection:** The structural isolation spacer assembly shall incorporate a durable, commercial-grade 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 spacer interface shall feature a heavy-duty mechanical offset path to allow authorized clinical staff, security personnel, and facility supervisors to execute localized door bypass commands and alarm resets directly at the security boundary without antenna detuning.

BEC Integrated Solutions
Toll-Free: 888.556.3998
Phone: 716.689.0871
Address: 5225 Sheridan Drive, Georgetown Square
Williamsville, New York 14221
E-mail: support@becsolutionsllc.com

- **Enclosure and Durability:** The low-profile standoff component assembly shall be protected inside a ruggedized, vandal-resistant polycarbonate commercial-grade housing optimized for flush-mount or surface-mount terminal configurations directly behind existing loop sensors or transceiver chassis backplanes.
- **System Interoperability:** The isolation spacer architecture must feature validated native compatibility for direct non-interference shielding over Accutech environmental safety platforms, ensuring non-latent signaling and secure credential validation across the facility's dedicated security network.

SYSTEM COMPONENTS

The 200665 LS2400 Polycarb Stand Off incorporates several fundamental integrated sub-modules and physical connection layouts:

- **RF-Transparent Polycarbonate Spacer Canopy:** The primary protective structural body manufactured from heavy-duty polymer materials to isolate underlying antenna electronics from surrounding metallic materials without blocking wireless signal paths.
- **Low-Profile Structural Contour Frame:** Ruggedized, high-durability outer structure featuring pre-drilled matching holes to guide mechanical hardware installations smoothly through the assembly.
- **Heavy-Duty Anchor Lugs:** Integrated high-strength mounting flange channels dedicated to accepting secondary anchor bolts or masonry screws safely into the facility wall surface.
- **Conformal Moisture Gasket Channels:** Internal perimeter seating tracks designed for clean, reliable application of moisture seals to shield underlying components from washdown spray paths.
- **Vandal-Resistant Outer Shell Matrix:** Heavy-duty commercial-grade impact-resistant shielding providing absolute physical stability and an optimized physical offset footprint for high-traffic corridors.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates peripheral transceiver alignment and tuning states down to a single physical monitoring focal point, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **Magnetic and Metallic Isolation:** Features a specialized structural depth layout engineered to isolate delicate antenna coils from nearby sheet metal, steel studs, or aluminum door frames, preventing magnetic detuning.
- **Zero Signal Attenuation:** Employs an RF-transparent non-metallic composition behind its structural frame to eliminate radio frequency signal dampening, ensuring optimal perimeter tag excitation and tag scanning reliability.
- **Tamper-Resistant Hardware Anchoring:** Built using ultra-strong fastener points and high-durability polycarbonate materials 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 LS2400 perimeter antenna systems, ensuring a unified approach to facility patient protection.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	LS2400 Polycarbonate Antenna Stand Off
Part Number / SKU	200665
Component Technology Type	Heavy-Duty RF-Transparent Structural Isolation Spacer
Signal Transmission Loss	0 dB (Engineered for Complete Radio Frequency Signal Transparency)

Enclosure Protection Rating	Vandal-Resistant Mechanical Offset Profile / High-Impact Structural Support
Operating Input Voltage	Passive Structural Hardware (Requires No Electrical Control Paths or Power Feeds)
Interface Link Mechanism	Surface-Mount Multi-Point Mechanical Fasteners for Rigid Wall / Door Frame Anchoring
Wander System Compatibility	Accutech ResidentGuard LS2400 Perimeter Antenna Environments
Chassis Construction	High-Impact, Heavy-Duty Industrial Commercial-Grade Polycarbonate Structural Blend
Primary Target Environments	Metal Door Frames, Steel-Studded Drywall, Elevators, High-Traffic Main Corridors

COMPLIANCE AND CERTIFICATION

- **FCC Status:** Formulated as a passive mechanical security shielding component. Because it contains no active electronics or oscillator traces, its physical profile is optimized to overlay components certified to meet FCC Part 15 regulations without disrupting signal calibration or causing harmful electromagnetic interference.
- **UL Listing:** Engineered and fabricated using raw structural materials compliant with UL safety classifications for low-voltage signal appliance enclosures, exterior access control equipment accessories, and healthcare facility structural safety instrumentation.
- **RoHS Compliance:** Formulated in alignment with environmental protection directives, ensuring that the heavy-duty polycarbonate casting process, dense structural materials, and exterior finishes strictly restrict the use of lead, mercury, hexavalent chromium, and other hazardous substances.