

Data Sheet:

## WanderGuard® BLUE EX5700 Door Controller

Provides robust and sophisticated egress point monitoring with optional door locking

### Description

The EX5700 Door Controller is the main component of STANLEY Healthcare's new WanderGuard BLUE Wander Management Solution for monitoring facility doors and preventing at-risk resident wandering.

### How It Works

Typically installed above or beside a doorway, the Controller transmits low frequency (LF) signals that cover the exit area. If a resident wearing a WanderGuard BLUE Tag enters the Controller's field, the Tag transmits a BLE message to the Controller. The Controller issues an alert and can also lock the door.

### Keypads

Indoor and Outdoor Keypads may be connected to the Controller.

The Controller enables the use of alarm reset and PIN codes/Badge Reader swipe to lock/unlock the door accordingly. The Keypads are powered by the Controller.

### Controller Relays

The Controller is equipped with two relays. Relay 1 is dedicated to the door maglock control. Relay 2 is activated when there is an alarm condition. It is usually connected to an annunciator device.

### Inputs and Outputs

The Controller has four inputs and four outputs that can be used for various use cases. In addition to door input that reports door status, there are alarm, override and Request for Exit inputs. Two of the outputs can be configured to be activated based on event/status change.

### Error Reporting

The Controller monitors its own status 24/7 using an internal mechanism. If there is a technical problem with the Controller, it provides a visual indication via its LED and sends the error information to the Indoor Keypad.

### Chaining for Greater Range

Chaining with additional Exciters or an External Antenna can be used in locations where the LF coverage exceeds the capacity of a single Controller (e.g., large areas such as double-doors, hallways or gates) to obtain complete and precise coverage.

### LED Indications

The Controller LED displays indications of its status: Day Mode, Night Mode, Alarm, Override and Error.

### Real-Time Alerts

Senior living facilities can use the EX5700 Controller to trigger an alarm when an at-risk resident loiters near the controlled door. The EX5700 can also trigger an alarm when a controlled door is open for longer than the configured period of time.

These Alarms can be connected to annunciators to alert staff. Alarms are also displayed by the WanderGuard BLUE Indoor Keypad.

## WanderGuard® BLUE



### Product Highlights

- **Localized Intelligence** – Controller immediately locks the door for Tags within its LF range. Controller's local processing ensures a quick response.
- **Supports Multiple Keypads** – Up to 4 Indoor Keypads and one Outdoor Keypad can be connected to one Controller.
- **Flexible Installation** – Includes various mounting options.
- **Easy Configuration with WanderGuard BLUE Manager** – Convenient Controller configuration by a mobile application.
- **Staff and Visitor Access** – Special codes for staff or authorized visitors to enter or exit the controlled area.
- **Built-in Relays for Added Functionality** – Two built-in relays can be used to lock/unlock the door and annunciate an alarm.
- **Optional External LF Antenna and Chained Exciter** – For added coverage.
- **Integration with Arial** – Sends Controller mode changes, alarms, events, status and errors to Arial.
- **Elevator support** – Stores the Tags in memory while in the elevator car and does not issue an alarm when the door is open.
- **Users** – Supports up to 1,000 users.
- **Badge support** – Supports Wiegand 26 card format.

Product Specifications	
Part Number	SKU: EX-5700-NA, EX-7500-E
Dimensions	245 mm x 200 mm x 60 mm (9.6 in. x 7.9 in. x 2.4 in.)
Weight	865 g (31 oz.)
Housing	Polycarbonate and ABS
Range	Adjustable from 0.5 m (20 in.) up to 6.5 m (21.3 ft.) in intervals of 0.5 m (20 in.)
LF Channels	125 kHz Field intensity limits: 37.3 dB $\mu$ A/m at 10 m (ETSI) Propagation limits: 21.8 dB $\mu$ V/m at 300 m (FCC) Modulation: ASK
Power	Input voltage 24-48 VDC Maximum power consumption: 24 W. Maximum power consumption of External LF Antenna: 5 W Maximum current consumption: with 24 V – 1 A; with 48 V – 0.5 A
Network Interface	Ethernet (RJ-45)
Environmental	Operating temperature: 0 to 50°C (32°F to 122°F) Humidity: 0 to 95%, non-condensing
Certification	FCC Part 15, sub-part C class B, sub-part B EN 300-330 EN 301.489 RSS210 (Canada) EMC IEC60601-1-2 (Europe) Safety: CE, cTUVus (EN60950)
Relays (Dry Contacts)	Two: 15 VDC, 2 A, 30 W; 24 VDC, 1.25 A, 30 W; 30 VDC, 1 A, 30 W; NO (Normally Open) or NC (Normally Closed) Class 2
Outputs	Four: Secure Door Lock, TIF, programmable, programmable. Open drain outputs, up to 100 mA @ 12V Note: The open drain outputs switch power provided from an external source.
Inputs	Four: Alarm, Override, Door Status, REX. To activate the input, it must be shorted to GND. Max. cable resistance – 5 Ohm  Up to 10 m cable (at least 26 AWG)
R485A, R485B	Indoor Keypad interface, up to 10 m cable (at least 26 AWG)
D0, D1	Wiegand Keypad interface, up to 10 m cable (at least 26 AWG)
UL 294	Access Control, TYPE: S, 17XS  Performance Levels: Destructive Attack: Level I Endurance: Level I Line Security: Level I Standby Power: Level I

### By Your Side™ Lifetime Customer Care

At STANLEY Healthcare, we measure our success by yours. The By Your Side Customer Care commitment combines a range of services to ensure that every customer achieves success and realizes the full value of their investment.

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