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 access PIN codes and locks/unlocks 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 in the vicinity of 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.

Product Highlights

• Wireless Tag Detection – The EX5700 Controller identifies Tags within its LF range and immediately locks the door. All processing is done locally in the Controller to ensure a quick response.
• Easy Installation – Includes mounting options for various infrastructures.
• Easy Configuration with WanderGuard BLUE Manager – Controller settings can be conveniently configured through STANLEY Healthcare’s dedicated tablet-based mobile application.
• Staff and Visitor Access – Staff or authorized visitors can key in special codes at Indoor/Outdoor Keypads to enter or exit the controlled area. Tailgating is prevented.
• Built-in Relays for Added Functionality – Two built-in relays can be used to lock/unlock the door and annunciate an alarm.
• Optional LF Antenna – For added coverage.
• Optional Slave Exciter – For added coverage.
# Product Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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<tbody>
<tr>
<td>Part Number</td>
<td>SKU: EX-5700-NA, EX-7500-E</td>
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<tr>
<td>Dimensions</td>
<td>245 mm x 200 mm x 60 mm (9.6 in x 7.9 in x 2.4 in)</td>
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<tr>
<td>Weight</td>
<td>865 g (31 oz)</td>
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<tr>
<td>Housing</td>
<td>Polycarbonate and ABS</td>
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<tr>
<td>Range</td>
<td>Adjustable from 1.5 m (5 ft) up to 6.5 m (21.3 ft) in intervals of 0.5 m (1.6 ft)</td>
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| LF channels            | Center frequency: 125 kHz  
                        | Field intensity limits: 37.3 dBμA/m at 10 m (ETSI)  
                        | Propagation limits: 21.8 dBμV/m at 300 m (FCC)  
                        | Modulation: OOK |
| BLE channels           | 37, 38, 39 |
| I/Os                   | Two 2 A Relays  
                        | Four 100 mA outputs  
                        | Four inputs  
                        | Three grounds |
| Network Interface      | Ethernet (RJ-45) |
| Power                  | Input voltage: 24-48 VDC  
                        | Maximum power consumption: 8 W  
                        | Maximum power consumption of External LF Antenna: 5 W |
| 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                 | Two: max. Switching voltage 24 VDC, max. Switching power 30 W, max. switching current 2A, NO (Normally Open) or NC (Normally Closed) |
| Outputs                | Four: Secure Door Lock, TIF, programmable, programmable. Open drain outputs, up to 100 mA @ 12V |
| 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) |

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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.