

# Behavioral Healthcare Door Safety



Life More Secure.



*The Door Switch™ is an over-the-door alarm for your behavioral healthcare facility doors.*

## PRODUCT BOOK

The Door Switch™ is a patented design. Patent No. RE42,991 and RE44,039

For more information, please visit [www.thedoorswitch.com](http://www.thedoorswitch.com) or call toll free at (877) 998-5625

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Door Switch Header Assembly 42" RH/LH

Door Switch Header Assembly 48" RH/LH

Door Switch Assembly Custom Made

## CONTINUOUS HINGE / ELECTRIC HINGE

Continuous Hinge up to 83"

Continuous Hinge up to 96"

Electric Hinge Assembly DS RH

Electric Hinge Assembly DS LH

## PANEL / KEYPAD / COMPONENTS / OPTIONS

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Control Panel

Keypad

Switch Interface Module

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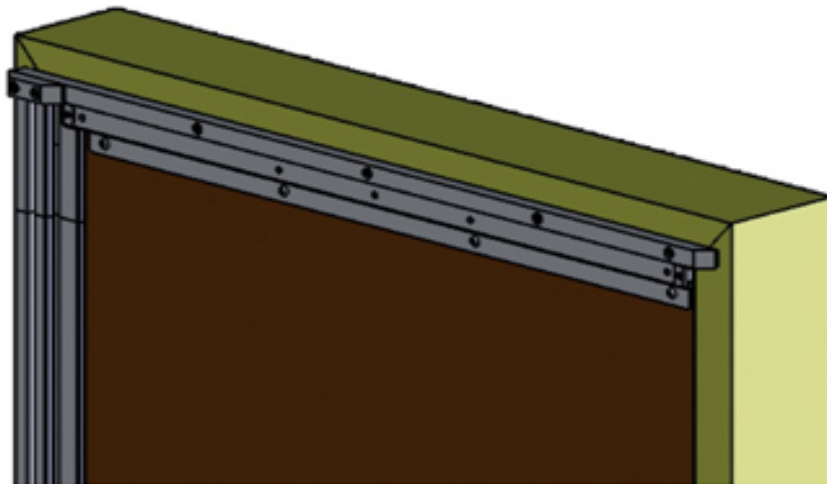
Emergency Release Stop

# The Door Switch™ System Overview

## PRODUCT FEATURES

The Door Switch™ is a complete hardware package that includes the following features:

- Designed for new construction or as a retrofit solution for inpatient behavioral healthcare facility doors.
- System keeps an electronic date and time log of the last 512 events (time of alarm, response time, reset time).
- All system components are electronically supervised 24/7 and will notify if maintenance is required. Monitored doors can be isolated from the system during maintenance.
- Electrified hinge section factory-made to fit with the switch, no cutting in the field.
  - Separate from the continuous hinge to provide easy access for maintenance, without the need to take down the door.
- Exposed hardware installed with tamper-resistant screws.
- Switch activation at one pound (1lb.) applied pressure.
- Isolated keyswitch located by monitored room and assures patient safety.
- Control panel controls all functions of The Door Switch™ system.
- Deluxe keypad used to monitor the status and reset The Door Switch™ system.
- Strobe light placed above room door gives quick visual location.
- Audible alarm used to notify personnel of a patient room alarm condition.





# Door Switch / Header Assembly

## PRODUCT FEATURES

- Header assembly fastened on the face of the frame to create an activation point between the switch and the frame.
- Header corner piece on hinge side provides coverage for vulnerable corner and hinge area.
- Switch assembly installed at the top face of the door for detection of a ligature apparatus.
- Installed with tamper-resistant screws.
- Creates an immediate activation point with the switch assembly when the door is closed on a ligature apparatus.
- Tapered edges reduce catch points.
- Switch activation with one pound (1lb) of applied pressure.
- Made of non-ferrous material.
- Custom made to fit all door sizes.



# Continuous Hinge & Electric Hinge

## PRODUCT FEATURES

- Use of a full surface continuous hinge to reduce catch points.
- Electrified 5" hinge section serves as power transfer for The Door Switch™.
- Factory-made to fit with The Door Switch™.
- Removable hinge cover provides easy servicing to the wires without the need to remove the door.
- Made of non-ferrous material.
- Frame reinforcement: None required for doors up to 200 lbs. For doors more than 200 lbs., 16-gauge channel required.

## REQUIRED

- Retrofit applications
  - Hinge filler plates

*Note: For double acting door applications, please see electrified top pivot assembly, double swing hinge and emergency release stop.*



## Keyswitch

## PRODUCT FEATURES

- Keyswitch resets the alarm and mounted next to the room door to assure patient safety.
- Keyswitch (without cylinder) accepts most current key systems.
- Available in wall mount or frame mount.

## REQUIRED

- Single gang box.



# Control Panel

## PRODUCT FEATURES

- Controls all functions of The Door Switch™ system.
- Monitors up to 96 doorways (additional components required).
- Keypad or computer programmable
- Internal history log can store up to 512 events (time of alarm, response time and reset time).
- 24/7 system component check.
- One independent alarm circuit.
- 12VDC, 750mA auxiliary output for powering The Door Switch™ components.
- Two 12V batteries are supplied for backup power.
- Built-in polling loop for The Door Switch™ with a maximum current draw of 128mA.



# Keypad

## PRODUCT FEATURES

- Used as a remote panel to monitor the status of The Door Switch™ system.
- Can be used as remote means of programming the system.
- Provides visual display of alarmed events.
- Attractive white console with a contoured door.
- 12VDC, 160mA (activated transmission) required (not from the polling loop).
- Large, easy-to-use keypad, soft-touch keys.
- Keys continuously backlit for greater visibility.
- Minimum of one required per system.
- Occupies one bus address on the Control Panel.



# Switch Interface Module

## PRODUCT FEATURES

- Used with the strobe relay module to create 2 independently monitored doors within a patient room.
  - One per patient room.
- 2mA required from the polling loop.
- Electronics mounted in a small plastic case with a tamper-protected cover.



# Strobe Relay Module

## PRODUCT FEATURES

- Used to link the strobe and the first door switch to the polling loop.
  - One per patient room (1 strobe per patient room).
- 7mA required from the polling loop.
- Electronics mounted in a small plastic case with tamper-protected cover.



# Supervised Notification Module

## PRODUCT FEATURES

- Used to add two (2) independent alarm circuits.
  - A maximum of 15 modules (30 independent alarm circuits) allowed per panel.
- Occupies one bus address on the control panel.
- 12VDC, 185mA (activated) required (not from the polling loop).
- Electronics mounted in a small plastic case.



# Polling Loop Extender

## PRODUCT FEATURES

- Module required to expand The Door Switch™ beyond 12-16 patient rooms.
- Used to add 128mA to the polling loop. To be used:
  - After every 12 patient rooms with 2 independently monitored doors per room and 1 strobe.
  - After every 16 patient rooms with 1 independently monitored door per room and 1 strobe.
- May be used to group/isolate polling loop addresses (patient rooms) for ease of troubleshooting and maintenance.
- 12VDC, 400mA required (not from polling loop).
- Electronics mounted in a small plastic case.



# USB/Serial Adapter Cable

## PRODUCT FEATURES

- Used by the installer to perform initial system programming or future system upgrades.
- Links the control panel to a laptop computer USB port for direct two-way software communication.
- Used to download a control panel's history log.
- 12VDC, 25mA required (not from the polling loop).



# Short Circuit Isolator

## PRODUCT FEATURES

- Used to provide short circuit isolation between extended polling loops for The Door Switch™ components.
  - When a short occurs on a polling loop branch, an LED is illuminated and isolates the defective branch of the system.
  - Reduces troubleshooting time and maintenance costs.
- One Isolator is suggested for each wire run.
- 5mA (activated) required from the polling loop.
- Electronics mounted in a small plastic case.



# Keyswitch Isolation Module

## PRODUCT FEATURES

- Isolates individual rooms when responding to an alarmed event.
  - Keyswitch disables horn at monitored room and assures patient safety.

## REQUIRED

- Non-metallic single gang shallow box (3-5/8"H x 2-3/8"W x 1-1/4"D).



# Audible Alarm

## PRODUCT FEATURES

- Used to notify personnel of a patient room alarm condition within a specific area of the facility.
- 12VDC, 100mA (activated) required (not from the polling loop).
- Single warble tone.
- 105 dB at 12VDC - Option 80 dB
- White designer look.



# Strobe Light

## PRODUCT FEATURES

- Used to notify personnel of a specific patient room alarm condition.
- Flash rate of approximately 1 flash per second
- Listed for ceiling or wall mounting. Ligature-resistant design

## REQUIRED

- Standard 4" x 4" x 1 1/2" back box, 4" octagon back box, or single/double-gang back box.

## OPTIONAL LENS COLORS

- Amber - Blue - Green - Red



Wall Mount



Optional Ceiling Mount

# Stopper Dome

## PRODUCT FEATURES

- Polycarbonate protective cover is used to provide vandal protection for the audible alarm and the strobe.





# Auxiliary Power Supply

## PRODUCT FEATURES

- Used when additional power is required for powering The Door Switch™ components not on the polling loop (consult factory).
  - Supervised Notification Modules
  - Polling Loop Extenders
  - Keypads
  - Audible Alarms
  - Strobe Lights
- UL Listed, Class 2 Rated Power Supply/Charger.
- 12VDC, 10A output.
- One 12V battery supplied for backup power.



# Sealed Lead-Acid Battery

## PRODUCT FEATURES

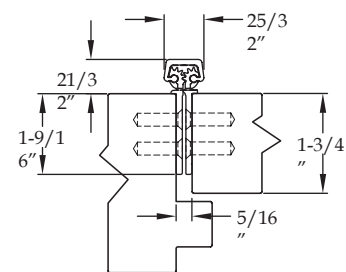
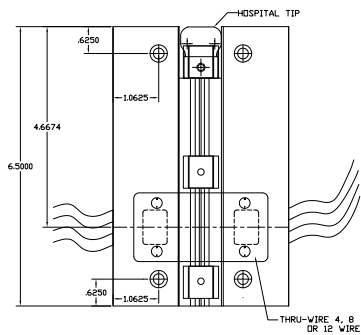
- Used for backup power to the control panels and auxiliary power supplies.
- 12VDC, 7AH.



# Full Mortise Hinge

## PRODUCT FEATURES

- Fully Concealed - Heavy Duty.
- No door inset, flush mount.
- 48" door width maximum - 450 lbs. door weight maximum.
- Frame reinforcement: None required for doors up to 200 lbs. For doors more than 200 lbs., 16-gauge channel required.
- Heavy duty hospital tip.



# Electrified Pivot Assembly

## PRODUCT FEATURES

- Replaces a mechanical version of the same make and model and will serve as the electrical connection between the switch assembly and the system electronics.
- To be used for double acting door applications.
- Consult factory for makes and models available.

*Note: For additional double acting door applications, please see double swing hinge and emergency release stop.*



# Double Swing Hinge

## PRODUCT FEATURES

- The Double Swing Hinge offers a swing of 100-degrees in either direction allowing the door the option of swing in the non-traditional direction in an emergency situation. Combined with the Emergency Release Stop, this hinge provides a barrier resistant application.



# Emergency Release Stop

## PRODUCT FEATURES

- The Emergency Release Stop is used as a stop during traditional operation and is applied to a cased opening. During an emergency situation, this stop can be released allowing the Double Swing Hinge to swing in the opposite direction. This is usually needed when something or someone is barricaded on the other side of a door and is not allowing the door to swing in the traditional direction.





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