

## Electronic Locking Swing Handle - Installation



### Package Contents:

- Electromechanical Swing Handle with Proximity Reader
- M3 x 25mm Long Mounting Screws (qty 4)
- M3 x 14mm Long Mounting Screw (qty 1)
- Rotation Limiter
- Cam Bolt
- Top Mounting Bracket
- Bottom Mounting Bracket
- Installation Instructions
- Keys

| Proximity Reader Module  |   |
|--------------------------|---|
| Voltage                  | 12VDC to 24VDC  |
| Operating Current        | 20mA maximum  |
| Transmit Frequency       | 125kHz  |
| DATA Signal Voltage      | 5VDC  |
| DATA Pulse Interval Time | 40µs  |
| DATA Signal Delay        | 2ms   |
| 3525PRX                  |   |
| Overall Dimensions       | 8-1/4" H x 1-15/32" W x 2-1/8" D<br>(210 x 37 x 54.3mm) |

| Actuator Module        |  |
|------------------------|--|
| Supply Voltage         | 12VDC to 24VDC (NOTE: Status LED will blink red if the supply voltage is out of range.)  |
| Standby Current        | 50mA maximum at 12VDC  |
| Operating Current      | 200mA maximum at 12VDC (with no external mechanical load applied to handle)  |
| Stall Current          | 1A maximum at 12VDC (limited to 2 seconds)   |
| Operating Transit Time | 1 second maximum (NOTE: Power must be present during transit times. If power is removed while the lock slide is in transit, it will complete it's cycle when power is restored.) |
| Electronic Unlock Time | 3 seconds minimum  |
| Open Collector Outputs | Rated for supply voltage, maximum load   |
| Alarm Outputs          | 100mA/ output maximum  |

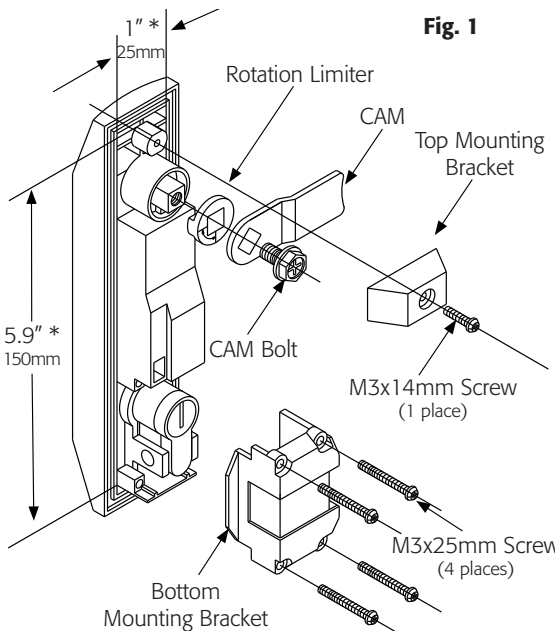
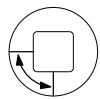


Fig. 1

### Handle Mounting:

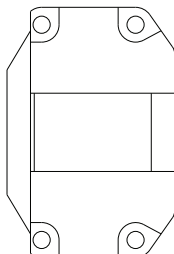
1. Assemble handle according to the proper handing required.
2. Rotation Limiter and Bottom Mounting bracket determine handing.
3. If existing cam or rod mechanism are installed on original handle remove and install on new handle.
4. Ensure the proper cutout in the door (See Fig.1).
5. Install handle through cutout and install top & bottom mounting brackets.
6. Install wiring harness and route to hinge side of door securing in place to ensure that nothing will bind or catch.
7. Proceed to wiring (See Fig.2).

**Note:**  
Handle rotation is determined by rotating limiter and bottom mounting bracket



### Rotation Limiter

Viewed from back.  
Handle rotation is anti-clockwise from front.



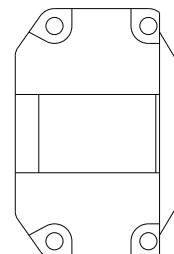
### Bottom Mounting Bracket

Viewed from back.  
Key rotation is anti-clockwise from front



### Rotation Limiter

Viewed from back.  
Handle rotation is clockwise from front.



### Bottom Mounting Bracket

Viewed from back.  
Key rotation is clockwise from front

## Electronic Locking Swing Handle - Installation

Each unit contains two separate functional modules:

1. The proximity module reads the contents of a compatible proximity cards and converts it to Wiegand format.
2. The actuator module controls and monitors the locking function of the swinghandle.

These two modules operate independently of each other and require connection to an access control unit (not provided), to be fully functional.

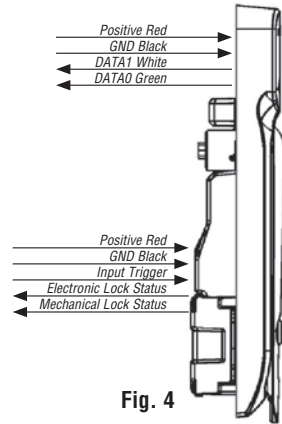


Fig. 4

The proximity reader module of the swinghandle is accessed with a four pin connector attached to a harness connected to the module's circuit board. The module's connector pinout is:

| Wire Color | Description | Note                           |
|------------|-------------|--------------------------------|
| Black      | GND         | ground                         |
| Red        | Positive    | 12 to 24VDC power supply input |
| Green      | DATA0       | DATA0 output                   |
| White      | DATA1       | DATA1 output                   |

| Wire Color | Description            | Note  |
|------------|------------------------|---|
| Black      | GND                    | ground  |
| Red        | Positive               | 12 to 24 VDC power supply input                                     |
| Pin 3      | N/C                    | no connect  |
| Orange     | Input Trigger          | command input (9VDC up to supply voltage, 100 milliseconds minimum) |
| Brown      | Electronic Lock Status | open collector output (sink to ground, 100mA max. load)             |
| Blue       | Mechanical Lock Status | open collector output (sink to ground, 100mA max. load)             |

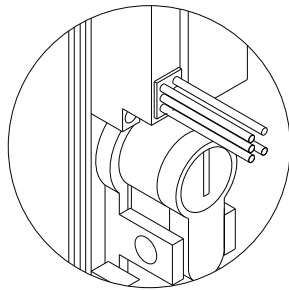


Fig. 2

- RED: Positive
- BLK: Negative
- ORG : Activation Trigger
- BLU: 100mA Output for Alarm
- BRN: 100mA Output for Alarm

### Wiring:

1. Red & Black are 12 to 24 VDC input voltage.
2. Orange is a positive input with a Normally Open Switch.  
The lock will unlock for a minimum of 3 seconds on a momentary activation (50 millisecond min.) or remain unlocked as long as the circuit is closed
3. Blue is an alarm that will activate when the key is used to unlock the cabinet or anytime the handle is not seated and locked.
4. Brown is an alarm that will activate when the lock is electrically activated and will remain on until the lock electrically relocks.

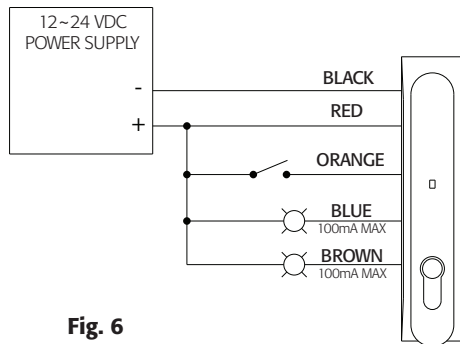


Fig. 6

| Lock Status                | Latch LED              | Alarm Wires       |
|----------------------------|------------------------|-------------------|
| Secure                     | Steady Blue            | Inactive          |
| Electrically Released      | Blue/ Magenta Flashing | Brown Active      |
| Mechanically Released      | Blue Flashing          | Blue Active       |
| Handle Not Fully Closed    | Blue/Red Flashing      | Blue/Brown Active |
| Supply Voltage out of spec | Flashing Red           | N/A               |

### FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment & receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**FCC Caution:** This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesired operation.

### Note:

The lock sensor is an optical device that senses the presence of the locking cam. Reflectivity of the locking cam material can affect sensing. Keyed cylinder can affect sensing. Removal of the factory installed keyed cylinder will void warranty.

**RF Exposure Warning:** The equipment complies with RF exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

### Industry Canada Compliance Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques," NMB-003 édictée par l'industrie.