



333 Bayview Avenue  
Amityville, New York 11701  
For Sales and Repairs, (800) 645-9445  
For Technical Service, (800) 645-9440

# GEM-PXCV Proximity Reader Cover Installation Instructions

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WI1279 6/04

## GENERAL DESCRIPTION

The GEM-PXCV is a durable hard plastic snap-on cover designed to replace the standard cover of the HID Model 6005B proximity card reader when used with a GEM-ACM1D Access Control System. These instructions detail the mounting and wiring procedures for the reader, and the installation of the GEM-PXCV cover.

There are 3 LEDs associated with this combination:

- The HID Model 6005B LED which provides the status of the *access condition* (door "locked" or "unlocked"). See Table 1.
- Two LEDs within the GEM-PXCV which provide the status of the *system condition* (system "armed" or "disarmed") associated with the access Area (see Table 2).

Together, the GEM-PXCV is an indoor/outdoor proximity card reader providing potted electronics, low power consumption and durability all in a small, easy-to-install package.

## LED Indications

The HID Model 6005B reader contains a multicolored LED which provides visual feedback as to access condition when access cards are presented to the reader.

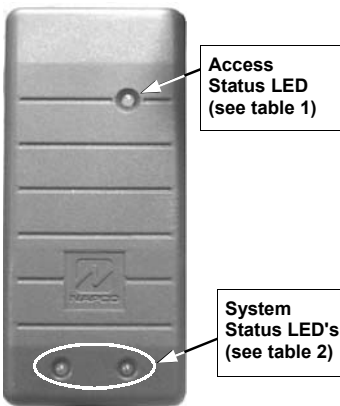


Table 1 below displays the LED indications and their meanings.

The GEM-PXCV module provides two LED's to indicate system status, as displayed in Table 2 below:

| LED INDICATION          | ACCESS CONDITION                         |
|-------------------------|--|
| Steady Red              | Door Locked                              |
| Steady Green            | Door Unlocked                            |
| Momentary Green         | Card Read--Door Remains Locked           |
| Alternating Green & Red | (Downloading PCD-Windows Program to ACM) |

| LED INDICATION   | SYSTEM CONDITION        |
|------------------|-------------------------|
| Steady Red       | System Armed            |
| Red LED is off   | System Disarmed         |
| Blinking Red     | System in Alarm         |
| Steady Green     | System Ready to Arm     |
| Green LED is off | System Not Ready to Arm |

**Stealth Mode** is used to hide the ACM's Armed and Status LEDs. When **Stealth Mode** is enabled, the GEM-PXCV system status LEDs are normally off but are turned on for 1 minute by any of the following events:

- Press a request to exit button
- Press a request to arm button
- Present a valid ARM/DISARM or ARM card to the reader

When Stealth Mode is disabled ("normal operation"), the LED's are always enabled and mimic the Keypad Status LEDs for the following functions only: *Armed, Disarmed, Ready to Arm, Not-Ready to Arm* and *Alarm*. **Note:** When the system is in alarm, Stealth Mode is disabled. "Access Only" cards do not affect the status of Stealth Mode.

Table 3: Proximity Card Reader Connections

| GEM-ACM1D Terminal Number | GEM-ACM1D Terminal Description | HID Model 6005B (Prox Point Plus ) Wires |
|---------------------------|--------------------------------|--|
| 17 (+)                    | Reader Power                   | Red (+ DC)                               |
| 18 (-)                    | Reader Power                   | Black (- Ground) & (Shielded Ground)     |
| 19                        | Reader Data 1                  | White (Data 1)                           |
| 20                        | Reader Data 0                  | Green (Data 0)                           |
| 21 (-)                    | Red LED                        | Brown (Red LED)                          |
| 22 (-)                    | Red & Green LED                | Orange (Green LED)                       |
| 23 (-)                    | Reader Sounder                 | Yellow (Beeper)                          |
| (Not Used)                | (Not Used)                     | Blue (Hold)                              |
| (Not Used)                | (Not Used)                     | Violet (Card Present)                    |

\* Tamper Connection not available on HID 6005B  
Be sure to place jumper JP1 in correct configuration for 5 volt or 12 volt reader operation.

Table 4: GEM-PXCV Wire Connections

| GEM-PXCV Wires | GEM-ACM1D Terminal Description | GEM-ACM1D Terminal Number | GEM-2D Terminal Number |
|----------------|--------------------------------|---------------------------|------------------------|
| Red            | Reader Power                   | 17 (+)                    | 35 (+)                 |
| Orange         | Active Low Red Armed LED       | 30                        | 48                     |
| Green          | Status Green LED               | 31                        | 49                     |

## MOUNTING THE GEM-PXCV

Before mounting the card reader, always plan ahead and determine the route all wires will follow before drilling into wall mounting surfaces. For more information regarding various system designs, refer to WI1121 for complete installation instructions. Install the GEM-PXCV as follows:

1. **Determine mounting location.** Using the template (Figure 1) and a pencil, lightly mark the location of the two mounting holes and the two wire feed holes.
2. **Route the HID Model 6005B wires.** The minimum number of wires required to activate the HID Model 6005B are displayed in Table 3. Determine which wires will be needed and plan how these wires will be accessed from behind the mounting location.
3. **Install dry wall mounting hardware.** Use hardware such as molly bolts, toggle bolts or other anchoring devices. Drill the smallest hole needed for the device. **Warning:** Use caution when drilling holes—there may be high voltage wiring in wall.
4. **Drill wire feed holes.** Minimum size for the top feed hole (A) is 1/2", but can be made larger if necessary. **Note:** Do not exceed a diameter that can be concealed by the GEM-PXCV reader cover. The diameter of the bottom feed hole (B) should not exceed 1/2" and should be made as small as possible. **Note:** Use care to ensure that the bottom feed hole (B) does not damage the structural integrity of the bottom mounting hole anchoring device.
5. **Route the HID Model 6005B wires** from behind the mounting location through the top wire feed hole (A).
6. **Insert the 3 LED System Status wires** into the bottom wire feed hole (B) and then out of the top wire feed hole (A).
7. **Connect the HID Model 6005B wires** as displayed in Table 3. Connect the GEM-PX wires as displayed in table 4, below.
8. **Note:** Do not apply power until all wiring is complete.
9. **Push all wires back into wall.** Use care not to damage the wiring or the mounting surface.
10. **Mount HID Model 6005B Reader Base** using two #4 mounting screws (supplied).
11. **Install cover.** Place the GEM-PXCV proximity reader cover over the HID Model 6005B base and snap on to secure.

#### NOTE ON READER TYPE

The type of HID Model 6005 Reader used and the PCD-Windows setting "Enable Card Presentation Beep and Green LED Flash" will determine the exact operation of the Access Status LED (see Table 1) as shown below:

#### HID MODEL 6005B-00 (Recommended)

- Setting Disabled: Green LED will operate when card is read.
- Setting Enabled: Green LED will double flash when card is read.

#### HID MODEL 6005B-07

- Setting Disabled: Green LED will not flash when card is read.
- Setting Enabled: Green LED will operate when card is read.

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NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

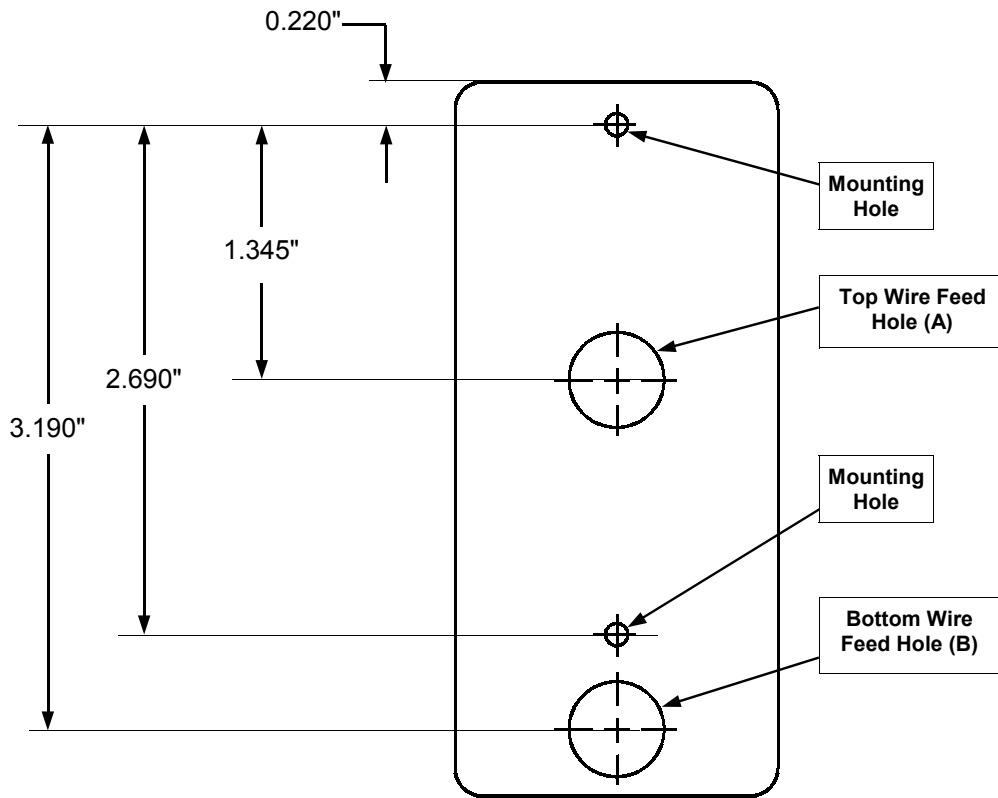
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# GEM-PX Proximity Reader Template



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