734N Wiegand Interface Module

Description

The 734N Wiegand Interface Module allows you to add IP network access control capability to XR100/XR500, XR150/XR350/XR550, and XR150INT/XR550INT Series panels using proximity or mag-stripe card readers. The 734N provides a fast, safe and secure 10/100 Mbps connection to your local network for AES encrypted TCP communication with the control panel and allows fast verification of user codes presented at the reader for door access. The 734N operates at 12/24 VDC from the power supply supporting the magnetic lock or door-strike at the door and provides a 10 Amp Form C relay contact for lock control. Four input zones are provided to allow connection of nearby burglary devices.

For local annunciation, a programmable speaker and a variety of switched ground annunciators are provided to connect sounders. In addition, the 734N provides LEDs to indicate door strike, Wiegand inputs, and power to the module.

The 734N provides a keypad programming connection to use a standard DMP LCD keypad for initial network setup. Programming can be completed using the keypad or from the panel.

Mounting the 734N

The 734N ships installed in a decorative, high-impact plastic housing that mounts directly to walls, backboards, or other flat surfaces. For easy installation, the 734N housing back and ends have wire entrances. The bottom contains multiple screw holes for mounting on single-gang switch boxes. It is recommended to mount the 734N near the protected door.
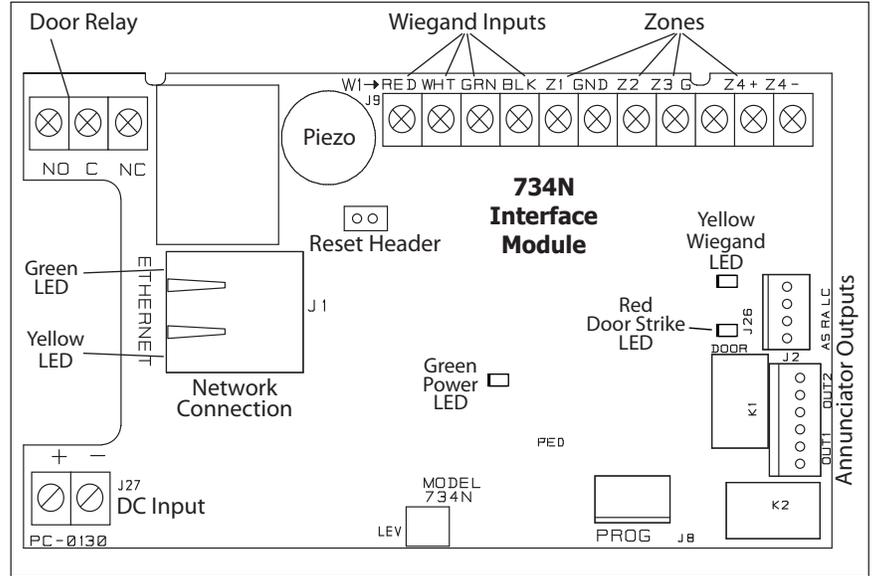

Figure 1: 734N Wiegand Interface Module

Magnetic Lock and Door Strike Wiring

Control door strikes and magnetic locks by using the Form C relay on the 734N module. Use an additional power supply to power door strikes and magnetic locks. Refer to Figures 2 and 3 for wiring information.
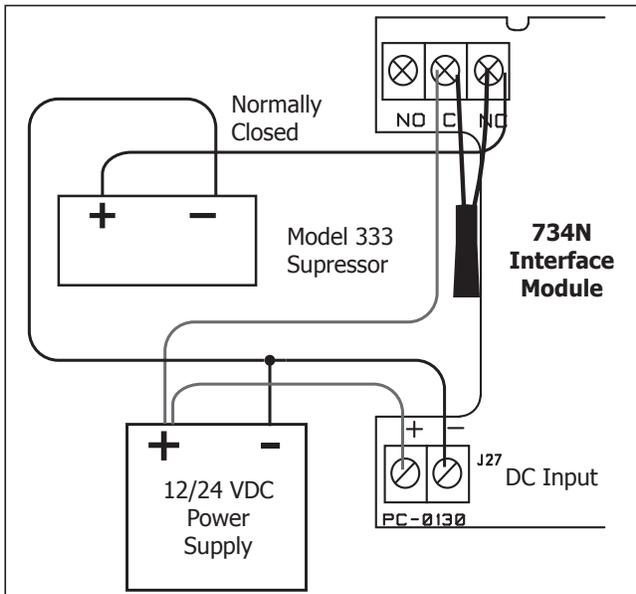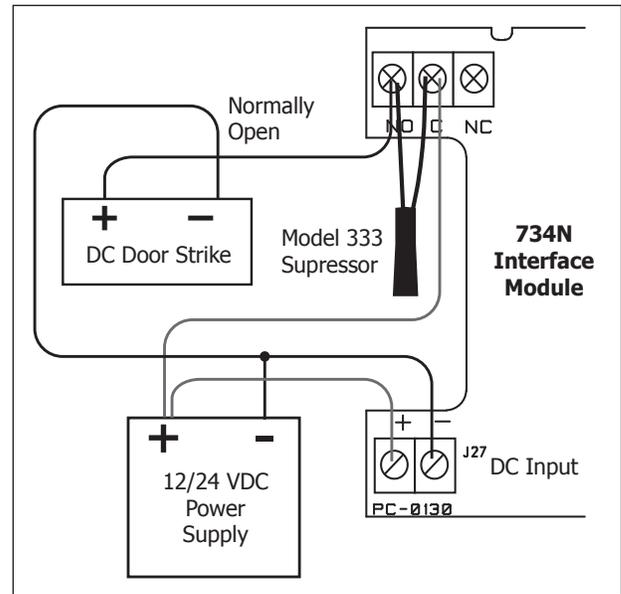

Figure 2: 734N Magnetic Lock Wiring

Figure 3: 734N Door Strike Wiring

12/24 VDC Power

Power to the 734N module can be provided by a 12 or 24 VDC power supply connected to the J27 terminal block.

Network Connection

Connect an IP network cable from the LAN/WAN connection to the 734N J1 Network connector. The 734N communicates AES encrypted TCP with panels with Network installed.

Two LED's are located on the ethernet jack.
- The Green LED indicates data sent to the panel.
- The Yellow LED indicates the speed of the transmission. A solid yellow LED indicates the network is connected at 100 Base-T. A flashing yellow LED indicates the network is connected at 10 Base-T.

NO/C/NC (Dry Contact Relay)

The 734N provides a Form C (SPDT) relay for controlling door strikes or magnetic locks. The three relay terminals marked NO C NC allow you to connect the device wiring to the relay for module control. See Figures 2 and 3 for proper door strike and magnetic lock wiring.

The Form C relay draws up to 35mA of current and contacts are rated for 10 Amps (resistive) at 12/24 VDC. When connecting multiple locks to the Form C relay, the total current for all locks cannot exceed 10 Amps. If the total current for all locks exceeds 10 Amps, problems may arise and an isolation relay may be needed. See the **Isolation Relay** section for information.

Install the 333 Suppressor

One Model 333 Suppressor is included with the 734N module. Install the suppressor across the 734N Common (C) and Normally Open (NO) or Normally Closed (NC) terminals.

If the device being controlled by the relay is connected to the NO and C terminals, install the suppressor on the NO and C terminals. Conversely, if the device is connected to the NC and C terminals, install the 333 Suppressor on NC and C terminals.

The suppressor wire is non-polarized.
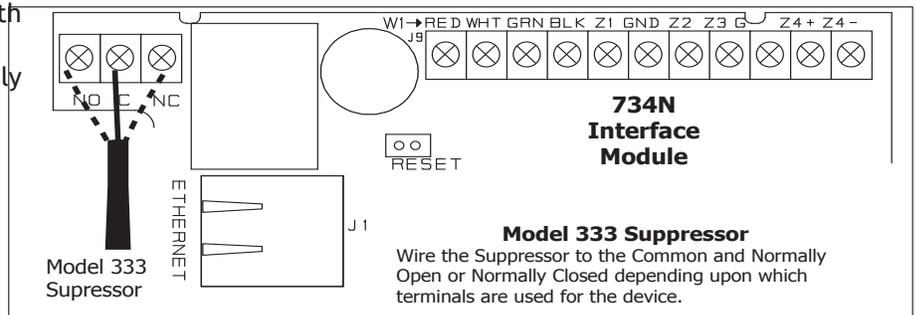
Install the suppressor as shown in Figure 4.

Figure 4: Model 333 Installation on the 734N Module

Isolation Relay

The Form C Relay can control a device that draws less than 10 Amps of current. If a device draws more than 10 Amp of current, or the sum of all devices controlled by the Form C Relay exceeds 10 Amps, an isolation relay must be used. Refer to Figures 5 and 6 for isolation relay wiring.
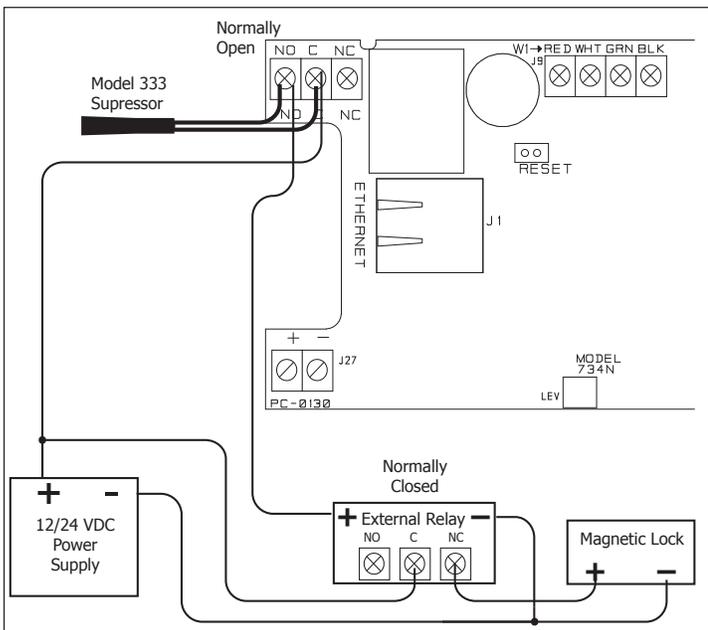

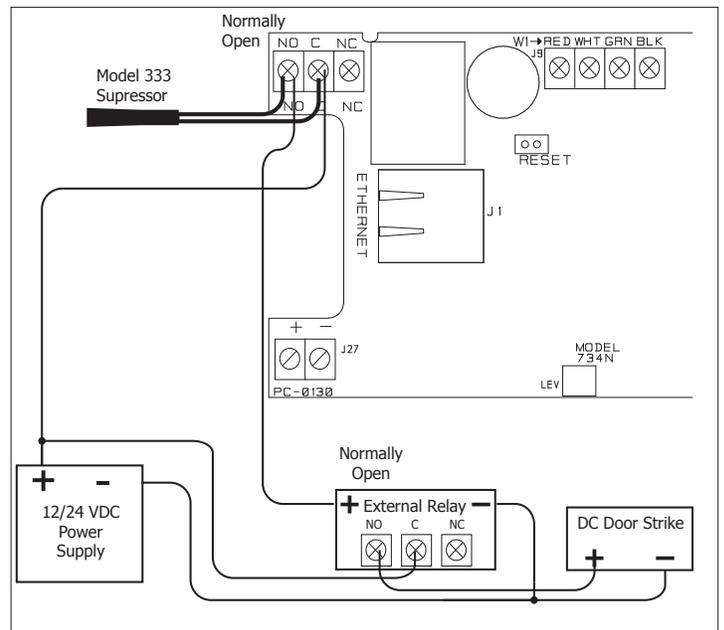**Figure 5: Isolation Relay with Magnetic Lock**

Figure 6: Isolation Relay with Door Strike

Connection to Reader

The 734N provides direct from the DC Input (J27) 12 or 24 VDC, 200mA output to the reader on the J9 Red terminal connection. Figure 7 shows a reader with wire colors Red, White, Green, and Black. The wire colors may be different for the reader being installed. Connect the reader wires to J9 terminals 1, 2, 3, and 4. As shown in Figure 7, the Green wire carries D0, or Data Zero, and the White wire carries D1, or Data One. The Red wire carries 12/24 VDC, 200mA power limited output and the Black wire is ground.
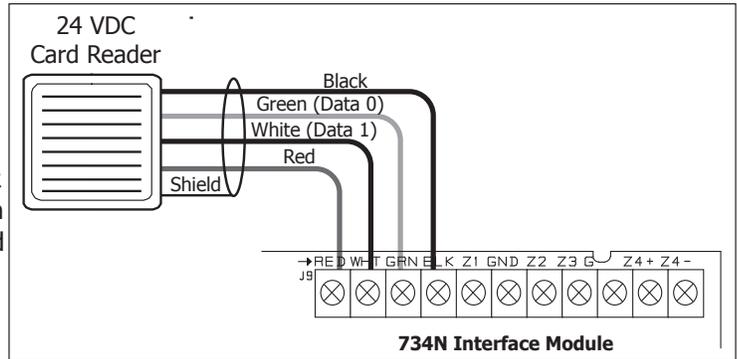

Figure 7: Card Reader Wiring

Status LEDs

The 734N provides two status LEDs and two ethernet LEDs. See Figure 1 for locations of the LEDs.
- The Red LED turns on for the duration of the door strike.
- The Yellow LED turns on for one second to indicate a Wiegand read.
- The Green LED is constant to indicate power.

Zone Terminals

Terminals 5-11 on J9 connect grounded zones 1 through 3. These zones have a grounded side and cannot be used for fire-initiating devices. Zones 2 and 3 can also be used for access control with Zone 2 providing a bypass option and Zone 3 providing Request to Exit functionality. Zone 4 terminals provide a non-powered Class B, Style A zone. Use the supplied, DMP Model 311 1K Ohm End-of-Line resistors on each zone. Refer to the panel programming guide for programming instructions.

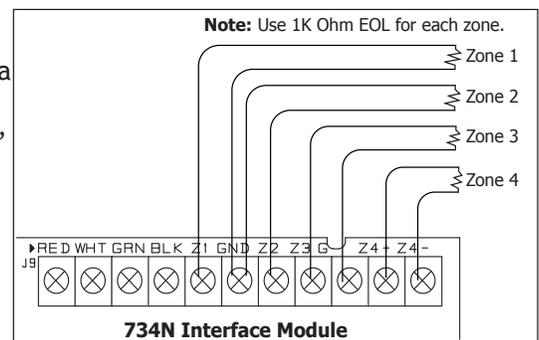| Zone #	Recommended Device	Residential Fire Devices?
1	Any burglary device	No
2	Door Contact	No
3	REX (PIR or Button)	No
4	Any device	Yes

Figure 8: 734N Zone Terminals

Annunciator Header

The 4-pin J26 header located on the far right of the circuit board is used to wire the Armed Status, Remote Annunciation, and the Remote LED Control. The open collectors supply a ground for a maximum current of 50mA @ 30 VDC. Connect a Model 300 4-wire harness to the 4-pin header for connection of the following indicators:

--AS (Armed Status)

Armed Status provides an unsupervised switched ground for a visual or audible armed status indicator that turns on when the burglary areas are armed, such as SYSTEM ON or ALL SYSTEM ON. Connect the wire from the 4-wire harness to an Armed Status output.

--RA (Remote Annunciation)

Remote Annunciation provides an unsupervised switched ground for a remote annunciator that turns on when the 734N on-board piezo turns on. Connect the wire from the 4-wire harness to a remote annunciator. The remote annunciator silences when the RA restores. The remote annunciator (RA) switched ground operates even if the speaker is programmed not to operate.

Figure 9: 734N Annunciator Outputs

--LC (Remote LED Control)

Remote LED Control provides an unsupervised switched ground for a visual indicator that turns on when the 734N relay activates. Connect the wire from the 4-wire harness to an LED. The LED turns on for the duration the door strike relay is on. HID readers optionally provide a connection for LED reader control.

Auxiliary Outputs 1 & 2

The 734N controls Auxiliary Outputs 1 and 2 when the Activate Zone 2 Bypass programming option is enabled and the Zone 2 Bypass Time is set. When the door contact (Zone 2) is opened while the door strike is activated, the Zone 2 Bypass Time starts. If the door has not closed at the end of the timer, Aux Output 1 is turned on and the timer starts again. If the door is still open at the end of the second timer, Aux Output 2 is turned on. Aux Outputs 1 and 2 turn off when the door contact is closed. Use the Model 431 Relay Harness for connection of Output 1 and Output 2 as shown in Table 1.

Form C Relays (J2)	
Output Color Code–Model 431 Harness	
Output 2 N/O	Orange/White
Output 2 Com	White/Gray
Output 2 N/C	Violet/White
Output 1 N/O	Orange
Output 1 Com	Gray
Output 1 N/C	Violet

Table 1: Harness Wiring

Reset Header

The reset header is located just above and to the right of the network connector (see Figure 1) and is used to reset the 734N module. To reset the module when first installing the system, short the two pins on the reset header before applying power to the module.

To reset the module while the system is operational, for example, prior to reprogramming, short the two pins on the reset header for one or two seconds without powering down the system.

PROG (Programming)

The 734N module is programmable from a 32-character keypad set to address one. For **12 Volt** applications, connect the keypad to the module using a Model 330 4-wire harness.

For **24 Volt** applications, connect the keypad to the module using the included Model 330-24 4-wire programming harness with in-line resistor.

⚠️ **Do not connect a keypad using a Model 330 harness if using a 24 volt power supply! Damage to the keypad could occur.**

While programming the 734N module with a keypad, advance to the next programming option by pressing the CMD key. Return to the previous programming option or erase an incorrect entry by pressing the Back Arrow key. Make a selection by pressing the Select key below the option you wish to select. While in programming mode no 734N communication with the panel can occur.

```
         734N
VER 100  02/01/12
```

Version Display

When you connect the keypad to the 734N module, the version number and release date display.

- Press keys 1, 2, 3, or 4 then the CMD key to show zone status of that zone.
- Press CMD key to enter the Diagnostic Menu.
- Press 6653 (PROG) then CMD to enter the Programming Menu.

```
 734N
 ZONE: 1  -OKAY
```
```
 734N DOOR
 ZONE: 2  -OPEN
```
```
 734N REX
 ZONE: 3  -SHORT
```

Zone Status Display

The status of the entered zone number displays. To display another zone, enter the zone number followed by the CMD key.

```
MENU?     NO  YES
```

Diagnostic Menu

Select YES to display the Panel Communication Connect Status display. Select NO to return to Version Display.

Connect Status

```
  CONNECT  STATUS
```
```
 CONNECT  STATUS
 NOT  CONNECTED
```
```
 CONNECT  STATUS
 BAD  PASSPHRASE
```
```
 CONNECT  STATUS
 DEVICE NOT PROG
```
```
 CONNECT  STATUS
 DUPLICATE DEVICE
```
```
 CONNECT  STATUS
 XMIT TIME xxx mS
```

To display the connection status of the 734N to the panel, select any top row key.

Not Connected: The 734N cannot connect to the panel on the network.

Bad Passphrase: The passphrase programmed in the 734N device does not match the passphrase programmed in the panel.

Device Not Programmed: The device number programmed in the 734N is not programmed as a Device Number in the panel.

Duplicate Device: There is another device on the network with the same device number.

Transmit Time XXX: The speed in milliseconds in which the last message was sent and received between the 734N and the panel.

```
      734N
    PROGRAMMER
```
```
      734N
   INITIALIZATION
```

Programming Menu

Press the CMD key to enter programming and display initialization options.

Initialization Options

These options can set the 734N module programming memory back to factory defaults in preparation for programming. Press any select key to enter the initialization menu.

```
   INITIALIZATION
  COMMS?   NO   YES
```

Initialization Communications

Select YES to initialize the communication options back to factory defaults. Select NO to leave communication options unchanged.

```
 INITIALIZATION
 SURE?       YES  NO
```

Initialize Confirm Option

After selecting YES to clear the Communication settings, the 734N displays SURE? YES NO for confirmation to clear the memory. This is a safeguard against accidentally erasing the programming. No memory is cleared from the programming until you answer YES to the SURE? option. Selecting NO leaves communication options unchanged.

```
 INITIALIZATION
ACCESS?    NO  YES
```

```
 INITIALIZATION
SURE?      YES  NO
```

Initialization Access

Select YES to initialize the Access Options back to factory defaults. Select NO to return to the INITIALIZATION menu.

Initialize Confirm Option

After selecting YES to clear the Access Options, the 734N displays SURE? YES NO for confirmation to clear the memory. This is a safeguard against accidentally erasing the programming. No memory is cleared from the programming until you answer YES to the SURE? option. Selecting NO leaves communication options unchanged.

```
     734N
  COMMUNICATION
```

Communication Menu

Press any select key to enter the Communication menu. Press the CMD key to advance to the Access Options menu. Press the back arrow to display the 734N Initialization menu.

```
734N  DEVICE  NO:
  7
```

734N Device Number

Enter a device number from 2-16 for the 734N. The device number must also be programmed as a device in the panel. Default is 7.

```
734N
DHCP?    NO    YES
```

734N DHCP

Select YES (fourth select key) to use dynamic IP address information for the 734N IP Address, Subnet Mask, and Gateway Address. Select NO (third select key) to enter static IP information.

```
734N  IP  ADDRESS:
 192.168.0.201
```

734N IP Address

Enter the static IP address of the 734N if the DHCP is set to NO. Default is 192.168.0.201.

```
SUBNET  MASK:
 255.255.255.0
```

Subnet Mask

Enter the local subnet mask assigned to the 734N. Default is 255.255.255.0

```
GATEWAY ADDRESS:
 192.168.0.1
```

Gateway Address

Enter the local gateway address of the 734N. Default is 192.168.0.1

```
PANEL IP ADDR:
 0.0.0.0
```

Panel IP Address

Enter the IP address of the panel. Default is 0.0.0.0.

Note: This IP address must match the address programmed in the panel at the Local IP Address option in Network Options. The DHCP programming in the panel must be set to NO.

```
PANEL IP PORT:
 2002
```

Panel IP Port

Enter the port number that the 734N uses to send communication to the panel. This must be the same port that is programmed in 734N Listen Port in Network Options programming of the panel.

Note: The Panel IP Port cannot be the same as the panel network programming port.

```
734N  PASSPHRASE
```

734N Passphrase

Enter an 8 to 16-character alphanumeric Passphrase to encrypt communication with the panel. The 734N Passphrase must match the 734N Passphrase entered in Network Options programming of the panel. The Passphrase is blank by default.

Note: A passphrase is required for communication to occur with the panel.

```
     734N
  ACCESS  OPTIONS
```

Access Options

Press any select key to enter the Access Options menu. Press the CMD key to advance to the Stop option. Press the back arrow to display the Communication menu.

```
ACTIVATE ZONE 2
BYPASS?  NO   YES
```

Activate Zone 2 Bypass

Select YES to activate the Zone 2 Bypass operation. Selecting NO allows standard zone operation on Zone. Default setting is NO. If the door being released by the 734N module is protected (contact installed), you can provide a programmable bypass entry/exit timer by connecting its contact wiring to the 734N module Zone 2. When the on-board Form C relay activates and the user opens the door connected to Zone 2, the zone fault is delayed for the number of seconds programmed in ZONE 2 BYPASS TIME allowing the user to enter/exit during an armed period.

If Zone 2 does not restore (door closed) within the programmed time, the piezo sounds every other second during the last ten seconds. If Zone 2 restores prior to the end of the programmed time, the piezo silences. If the zone does not restore before the programmed time, the 734N ends the bypass and indicates the open or short zone condition to the panel.

```
ZONE 2 BYPASS
TIME:        40
```

Zone 2 Bypass Time

Enter the number of seconds to elapse before the Bypass Timer expires. Range is from 20 to 250 seconds. Press any top row select key to enter the number of seconds. If the door remains open when the timer expires a zone open/short is sent to the panel for Zone 2. The default is 40 seconds. Figure 10 shows how the Bypass option works.
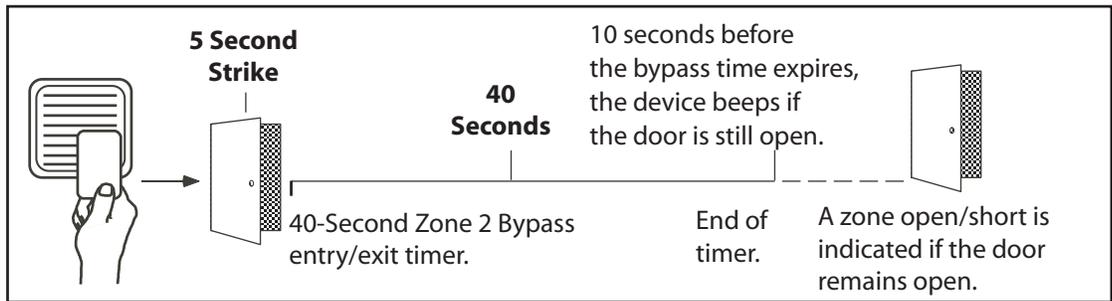
Figure 10: Zone 2 Bypass Timeline using default time

RELOCK ON ZONE 2 CHANGE? NO YES

Relock on Zone 2 Change?
Selecting YES turns the relay off when Zone 2 returns to normal during the bypass. Selecting NO leaves the relay on when Zone 2 faults to an open or short condition during bypass. Turning off the relay at Door Closed allows a long strike time to be automatically ended and relocks the door. The default is NO.

ACTIVATE ZONE 3 REX? NO YES

Activate Zone 3 Request to Exit
Selecting YES activates the Zone 3 Request to Exit (REX) option.
Selecting NO allows standard zone operation on Zone 3. Default setting is NO.
Connect a PIR (or other motion sensing device) or a mechanical switch to Zone 3 to provide REX capability to the system.
When Zone 3 **shorts**, the on-board Form C relay activates for the programmed number of seconds (see Zone 3 REX Strike Time). During this time, the user can open the protected door to start the programmed Zone 2 Bypass entry/exit timer. After the programmed number of seconds, the relay restores the door to its locked state.
The 734N module provides a bypass-only option for REX on Zone 3. When Zone 3 OPENS from a NORMAL state, only a bypass occurs: the on-board relay does not activate. This bypass-only option uses two methods of REX. The first REX device provides the programmed bypass entry/exit timer. The second REX, or manual device such as a door knob, unlocks the door.
An example of the shunt-only configuration is a door to an office that is locked 24 hours a day. Users pass a REX motion detector positioned by the door to begin the programmed exit timer. Within the programmed number of seconds the user must then manually activate a second device, such as a REX device or manual door knob, to unlock the door. If the door is opened after the programmed number of seconds, an open condition is indicated to the panel.

ZN 3 REX STRIKE TIME: 5

Zone 3 REX Strike Time
Enter the number of REX seconds to elapse. Range is from 5 to 250 seconds. Press any select key to enter the number of seconds. The default is 5 seconds.

ACTIVATE ONBOARD SPEAKER? NO YES

Activate Onboard Speaker
Select YES to enable the onboard speaker for local annunciation, such as alarm and trouble annunciations. Select NO to turn the speaker off for all operations. This does not affect remote annunciator open collector (RA) operation. The default is NO.

CARD OPTIONS: DMP

CARD OPTIONS: DMP CUSTOM ANY

Card Options
Typically, an access card contains data bits for a site code, a user code, and start/stop/ parity bits. The starting position location and code length must be determined and programmed into the 734N Module. Select **DMP** to indicate the reader sends a 26-45 bit data string. To select the DMP option, press the first Select key under DMP. Default is DMP.
Select **CUSTOM** if using a non-DMP card with a user code length of 4 to 12 digits.
Select **ANY** to allow all card reads to activate the door strike relay. The door strike relay is activated for the length of time programmed in ZN 3 REX TIME. No user code information is sent to the panel.
Note: When set to DMP, the 734N converts 17 bits of the 26 to 45-bit data string into a 5-digit number.

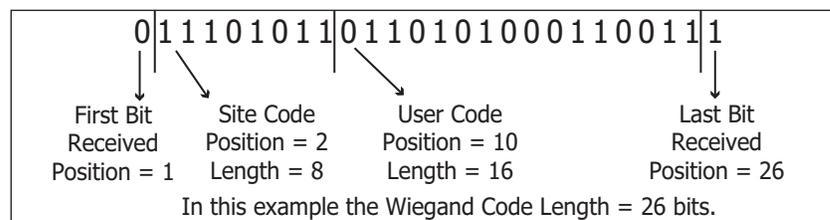In this example the Wiegand Code Length = 26 bits.

Figure 11: HID 26-bit Wiegand Data Stream Bit Location

Custom Card Definitions

Wiegand Code Length

When using a custom product, enter the total number of bits to be received in Wiegand code including parity bits.

Press any top row Select key to enter a number between 1-255 to equal the number of bits. Default is 26 bits.

Site Code Position

Enter the site code start position in the data string. Press any Select Key to enter a number between 0-255. Default is 1. Press the COMMAND key to save the entry.

Site Code Length

Enter the number of Site Code bits used. Press any Select Key to enter a number between 1-16. Default is 8. Press the COMMAND key to save the entry.

User Code Position

Define the User Code start bit position. Press any Select Key to enter a number between 0-255. Default is 9. Press the COMMAND key to save the entry.

User Code Length

Define the total number of User Code bits used. Press any Select Key to enter a number between 1-255. The default is 16.

Require Site Code

Press the top row Select key under YES to use a site code and press the COMMAND key to view the site code entry display. In addition to User Code verification, door access is only granted when any one site code programmed at the SITE CODE ENTRY option matches the site code received in the Wiegand string.

Site Code Display

You can program up to eight five-digit site codes. Site code range is 1-65535.

SITE CODE 1 displays first. Any previously programmed site code displays. Default is 127. To change the site code, press a select key, then enter the new code. Press the COMMAND key to save and to display the next site code.

Site Codes 2-8 default to blank.

Number of User Code Digits

The 734N module recognizes user codes from one to ten digits in length. Press any top row Select key to enter a user code digit length between 3-12 digits. This number must match the user code number length being programmed in the panel. Default is 5.

All bits are read and converted into a decimal number string. The number string is left padded with '0' if needed for long user code lengths. When selecting '4' the right digit is dropped and the next four sent.

Example: # decoded   1234567
        10 digits   0001234567
        5 digits   34567
        4 digits   3456

No Communication with Panel

This option defines the relay action when communication with the panel has not occurred for approximately ten seconds. Default is OFF. Press any top row Select key to change the default relay action.

Choose the action required when the 734N cannot establish communication with the panel:

Press the first Select key to choose **OFF** (Relay Always Off) — The relay does not turn on when any Wiegand string is received. **OFF** does not affect any REX operation.

If communication is lost during a door strike, relay remains on for the door strike duration, but turns off at the end of the door strike timer.

Press the second Select key to choose **SITE** (Accept Site Code) — Door access is granted when the Wiegand site code string received matches any site code programmed at SITE CODE 1-8. For details refer back to the REQUIRE SITE CODE option.

Press the third Select key to choose **ANY** (Any Wiegand Read) — Door access is granted when **any** Wiegand string is received.

Press the fourth Select key to choose **ON** (Relay Always On) — The relay is always on. Press the COMMAND key to display the next action.

Press the first Select key to choose **LAST** (Keep Last State) — The relay remains in the same state and does not change when communication is lost. If communication is lost during a door strike, the relay remains on for the door strike duration, but then returns to it's last state prior to doing the door strike.

Stop

Press any select key to start the stop routine. When programming in complete, the Version displays and the keypad can now be removed.

WIEGAND CODE
LENGTH: **26**

SITE CODE
POSITION: **1**

SITE CODE
LENGTH: **8**

USER CODE
POSITION: **9**

USER CODE
LENGTH: **16**

REQUIRE SITE
CODE: **NO**   YES

SITE CODE 1:
(1 - 65,535)   127

SITE CODE 2:
(1 - 65,535)   -

SITE CODE 8:
(1 - 65,535)   -

NO. OF USER CODE
DIGITS: **5**

NO COMM WITH PNL
OFF

NO COMM WITH PNL
OFF SITE ANY ON

NO COMM WITH PNL
LAST

734N
STOP

734N Network Specifications

The 734N was designed to have minimum impact on network performance. The 734N is supervised in the panel by exchanging two data packets every five seconds. The payload of the data packets exchanged between the XR100/XR500, XR150/XR350/XR550 or the XR150INT/XR350INT/XR550INT Series and the 734N is a very small 18 bytes. The total traffic for all supervision, including network overhead, is roughly two kilobytes per minute per 734N. This would be equivalent to a very small e-mail message.

If required, all of the traffic between the 734N(s) and the panel can be completely isolated from the rest of the existing network by connecting all of the 734N modules and the panel to the same switch, then connecting the switch to the remainder of the network. All traffic between the 734N and the panel would then be confined to the switch where they are connected, while still allowing the panel to communicate with the central station through the normal network.

The security of the 734N is multi-faceted. Most importantly, the 734N is a single purpose network device. What this means is that all of the ports in the TCP/IP stack used in the 734N are disabled and allow no inbound connections. This prevents a potential intruder from making any type of connection with the 734N through the network. The 734N communicates with the control panel by establishing an outbound only connection to the panel. All communication between the 734N and the control panel is encrypted using 128-bit AES encryption. This is the same encryption standard approved and used by the U.S. government, including the National Security Agency for encrypting Secret information.

Packet Communication Outline:

- The 734N module establishes panel communication using the TCP/IP protocol.
- At start up, the 734N opens a TCP/IP connection that remains open indefinitely.
- The socket can be closed by the 734N or panel after a time-out.
- The connection is re-established by the 734N after the time-out.
- A pair of supervision packets are sent every 5 seconds.
    - The payload for each packet is 18 bytes and the total traffic, including overhead, is approximately 2 kilobytes per minute for each 734N.
    - Non-Supervision messages have a payload range of 18-50 bytes.

Compliance Listing Specifications

UL Access Control

The access relay must be configured as fail-safe or fail-secure as determined by the local Authority Having Jurisdiction (AHJ). This system is not intended to be used in place of listed panic hardware.

The power supply must be a listed commercial burglary/household fire, power limited, Class 2 with a compatible voltage range for the product. The 734N requires a listed 12 or 24 VDC power source.

ULC Commercial Burglary (XR100/XR500 and XR150/XR350/XR550 Series Panels)

When using the zones of the 734N in a listed application, place the module in a listed enclosure and connect a DMP Model 307 Clip-on Tamper Switch to the enclosure programmed as a 24-Hour zone.

The 734N Access Control features have not been investigated by ULC.

The 734N zones can be used in a Low Risk application. For Medium or High Risk applications, refer to the Dual Zone Protection diagram in the XR100/XR500 or XR150/XR350/XR550 Canadian installation guides.

Specifications

Primary Power	8.5 VDC to 28.5 VDC
Current Draw	
Standby	346mA (Includes 200mA for Proximity Reader)
Alarm	348mA (Includes 200mA for Proximity Reader)
Form C Relay	35mA at 12/24 VDC
Zones	5 VDC, 2mA max
Dimensions	4.5" W x 2.75" H x 1.75" D
Weight	8 oz .23 Kg

Compatibility

XR100/XR500 Series panels

XR150/XR350/XR550 Series panels

XR150INT/XR550INT Series panels

Accessories

Proximity Readers
PP-6005B   ProxPoint® Plus Proximity Reader
MP-5365 MiniProx™ Proximity Reader
PR-5455 ProxPro® II Proximity Reader
MX-5375 MaxiProx® Proximity Reader
TL-5395 ThinLine II® Proximity Reader
Proximity Credentials
1306P DMP Prox Patch
1306PW Prox Patch™
1326 ProxCard II® Card
1346 ProxKey III® Access Device
1351 ProxPass®
1386 ISOProx II® Card

Certifications

FCC Part 15

California State Fire Marshall (CSFM)

NIST AES Algorithm Certificate #1937

ANSI/UL 294	Access Control System Units
ANSI/UL 1610	Central-Station Burglar-Alarm Units
ANSI/UL 609	Local Burglar Alarm Units And Systems
ANSI/UL 1076	Proprietary Burglar Alarm Units And Systems
ANSI/UL 1023	Household Burglar-Alarm System Units
ULC S304	Central And Monitoring Station Burglar Alarm
ULC C1076	Proprietary Burglar Alarm Units And Systems
ULC C1023	Household Burglar Alarm System Units

International Certifications

Security Grade: 3

Environmental Class: II

Intertek (ETL)
EN 50131-1
EN 50131-3
EN 50130-5
EN 50133-1

Export Control

The 734N uses AES encryption and any export beyond the United States must be in accordance with Export Administration Regulations.

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