

734 International Access Control Module

INSTALLATION AND PROGRAMMING GUIDE

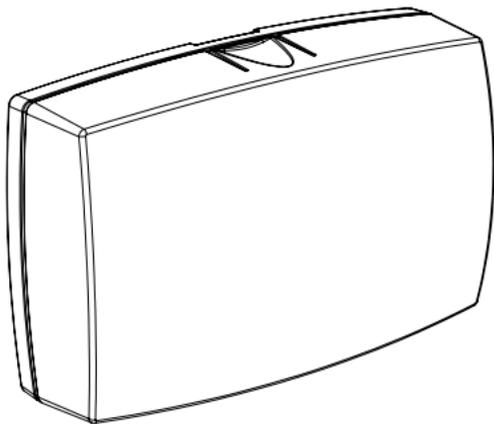


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ABOUT THE 734INT

The 734INT Access Control Module allows you to use the powerful, built in access control capability of DMP Panels using smartcard, proximity, mag stripe, or biometric readers, or other compatible authentication devices. The 734INT includes the following features:

Power Supply

The 734INT operates at 12/24 VDC from the power supply supporting a door's magnetic lock or door-strike.



Warning: To avoid the risk of equipment damage, do not exceed 750 mA total output current for zones connected to the module.

Zone Terminals

Zones 1, 2, and 3 on the 734INT can be programmed for a variety of burglary or access control applications. Zone 4 is a class B, style A circuit that may be programmed as a fire zone.

Annunciators

An onboard programmable piezo provides local annunciation at the 734INT. You can also connect a variety of switched ground annunciators to the 734INT for remote annunciation.

Indicator LEDs

The 734INT provides three indicator LEDs:

- RELAY (red) turns on for the same duration as the door strike relay.
- WIEGAND (yellow) turns on for one second to indicate receipt of valid input.
- DATA (green) indicates that the module is communicating with the panel.

Form C Relay

The 10 Amp Form C relay draws up to 35 mA of current. Refer to “Wire the Access Control Lock” and “Isolation Relay (optional)” in this document for more information.

Programming Connection

The 734INT also provides a keypad programming connection that allows you to use a standard DMP LCD keypad for initial setup. Programming can be completed using a keypad connected to the 734INT or from XR150INT/XR550INT Series panels.

Wiegand and OSDP Reader Support

The 734INT supports both Wiegand and OSDP card readers. For information on compatible readers, refer to “Readers and Credentials”. OSDP support requires 734INT modules with PCB Rev 6 and higher.

Keypad In and Out Connections

The keypad in (KYPD IN) connection receives and transmits data to the panel Keypad Bus or AX-Bus.

The keypad out (KYPD OUT) connection receives and transmits data out to other keypads or modules. Install a dual connector four-position harness to allow daisy chain connection to other devices, up to the maximum number of devices supported. XR150INT Series panels support up to 8 devices. XR550INT Series panels support up to 16 devices. When using the AX-Buses with XR550INT devices, you can have 32 doors, expandable to 96.

 **Caution:** When the 734INT is powered with 24 VDC, the only device that can be connected to the KYPD OUT header is another 734INT powered with 24 VDC.

PCB FEATURES

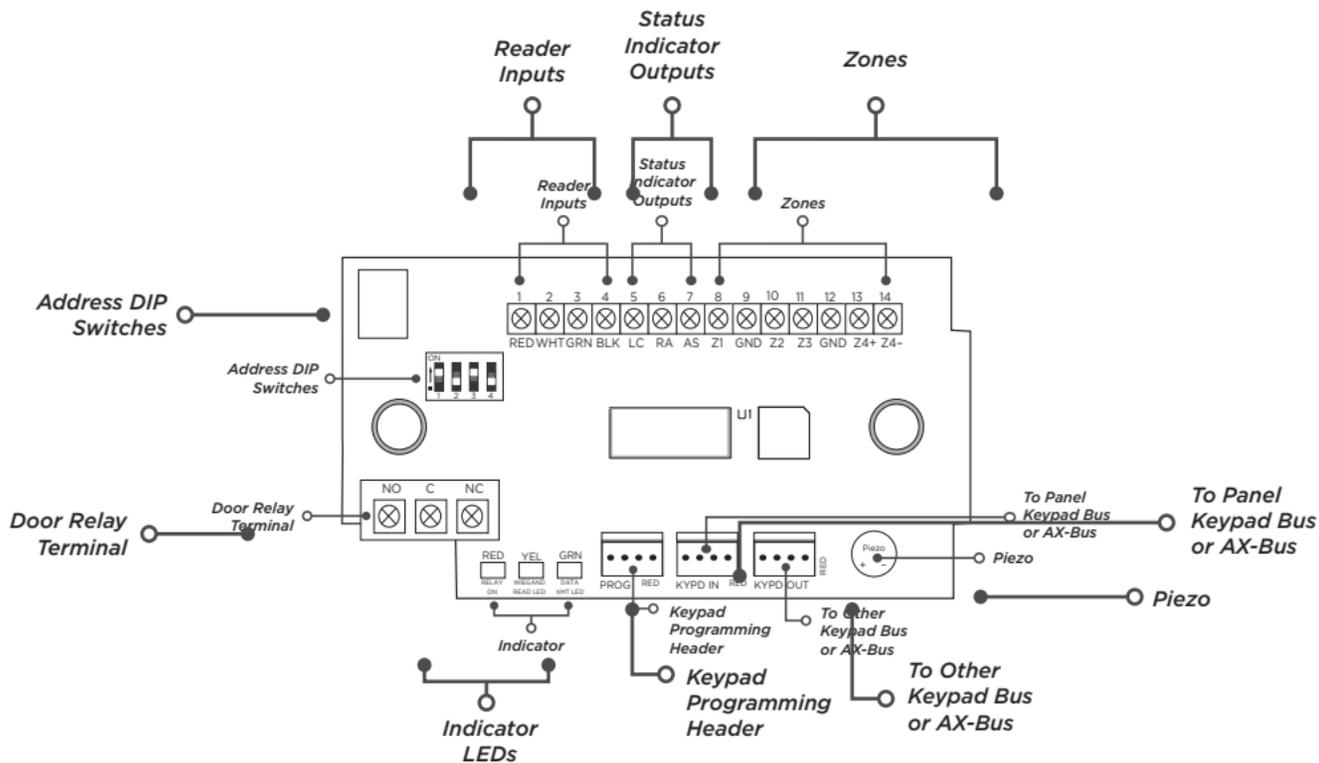


Figure 1: PCB Features

INSTALL THE 734INT

1 *Mount the 734INT*

The module comes in a high-impact plastic housing that you can mount directly to a wall, backboard, or other flat surface.

For easy installation, the back and ends of the 734INT housing have wire entrances. The back also contains multiple mounting holes that allow you to mount the module on a single-gang switch box. DMP recommends mounting the 734INT near the protected door. Refer to Figure 2 for mounting hole locations on the housing base.

1. Remove the PCB from the plastic housing by loosening the clips on one side and gently lifting it out of the housing base.
2. Insert the included screws in the desired mounting hole locations and tighten them to secure the housing to the surface.
3. Reinstall the PCB in the housing base.

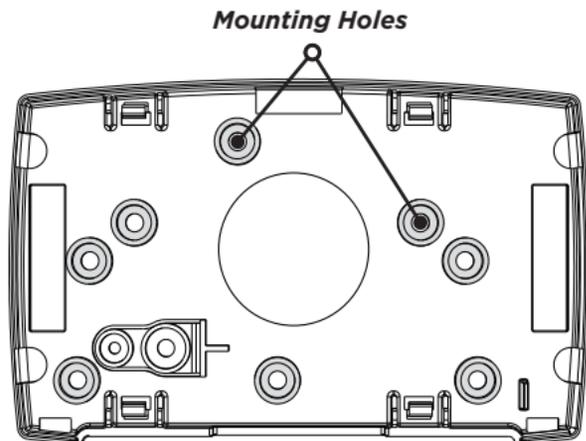


Figure 2: Mounting Hole Locations

2 Wire the Access Control Lock

The 734INT provides a Form C (SPDT) relay for controlling locks and other electronically-controlled barriers. The three relay terminals marked NO C NC allow you to connect the device wiring to the relay for module control.

Use an additional power supply to power magnetic locks and door strikes. See Figure 3 and Figure 4 for typical magnetic lock and door strike wiring.

The Form C relay draws up to 35 mA 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. Refer to “Isolation Relay (optional)” for more information.

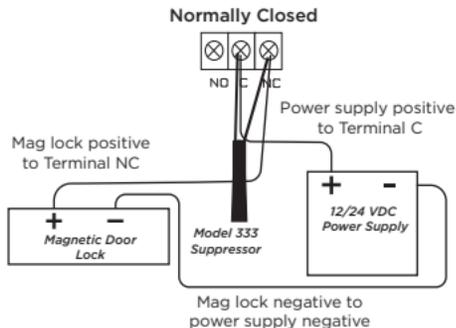


Figure 3: Typical Magnetic Lock Wiring

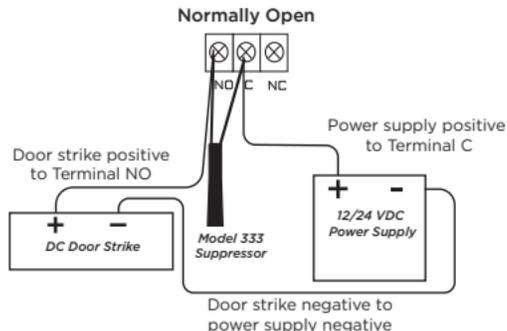


Figure 4: Typical Door Strike Wiring

KYPD IN / KYPD OUT Connections

- KYPD IN (Keypad In): Receives and transmits data to the panel Keypad bus/ AX-Bus.
- KYPD OUT (Keypad Out): Receives and transmits data out to other keypad(s) or module(s). Install a dual-connector harness to allow connection to other devices up to the maximum number of devices supported.

When the 734INT is powered from 24 VDC, do not connect devices to KYPD OUT header.

Status LEDs

The 734INT board contains three status LEDs.

- The Red LED turns on for the same duration as the door strike relay.
- The Yellow LED turns on for one second to indicate receipt of a valid input determined by card format programming.
- The Green LED indicates data sent to the panel.

3 Isolation Relay (optional)

The Form C relay can control a device that draws less than 10 Amps of current. If a device draws more than 10 Amps 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 Figure 5 and Figure 6 for isolation relay wiring.

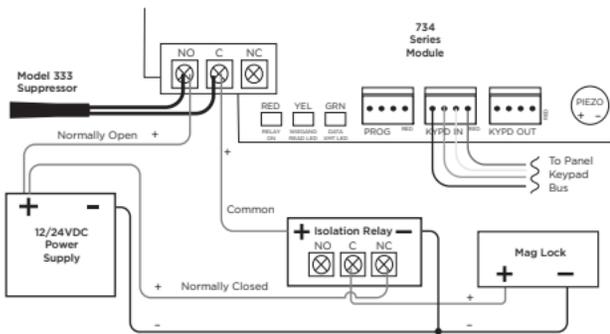


Figure 5: Magnetic Lock with an Isolation Relay

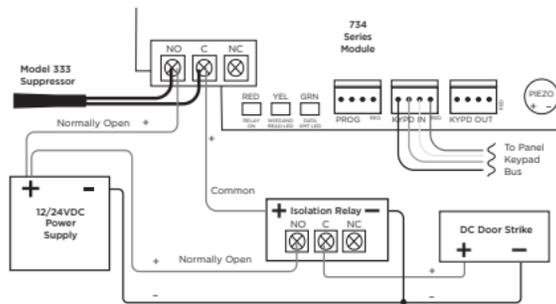


Figure 6: Door Strike with an Isolation Relay

4 *Install the 333 Suppressor*

Use the included 333 suppressor with the 734INT to suppress any surges caused by energizing a magnetic lock or door strike.

Install the 333 across the module's C (common) and NO (normally open) or NC (normally closed) 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 7.

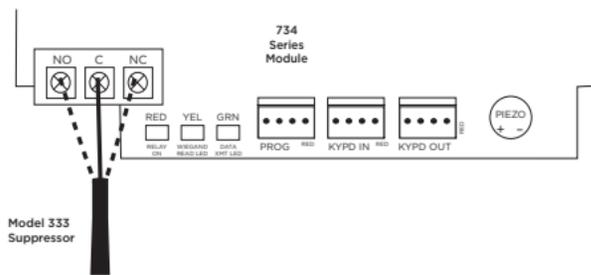


Figure 7: 333 Suppressor Installation on the 734INT

5 *Wire the Zone Terminals*

Terminals 8 through 12 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 feature and zone 3 providing request to exit functionality.

Terminals 13 and 14 connect to zone 4. Zone 4 provides a non-powered Class B ungrounded zone suitable for connection to fire devices such as heat detectors or pull stations.



Note: You must provide a mechanical means of resetting four-wire smoke detectors or other latching devices on zone 4. The panel does not drop power to the Keypad Bus or AX-Bus when a Sensor Reset is performed.

Use the supplied 311 1k Ohm End-of-Line (EOL) resistors on each zone. Refer to the panel programming guide for programming instructions. See Table 1 and Figure 8 for more information on wiring the zone terminals.

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

Table 1: 734INT Zone Uses

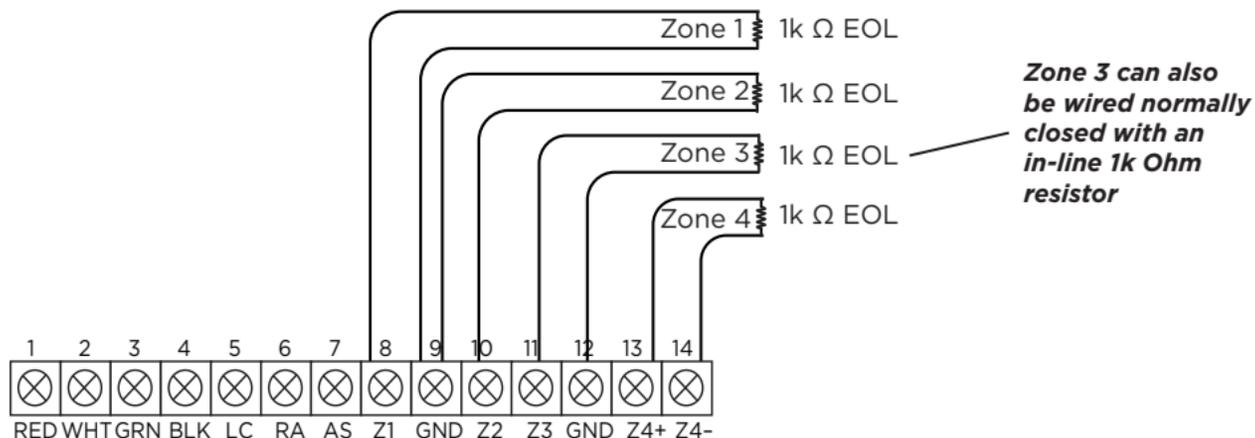


Figure 8: Zone Terminal Wiring

6a *Connect a Wiegand Card Reader*

The 734INT provides direct 12/24 VDC output to the reader on the Red terminal connection. Figure 9 shows a reader with wire colors RED, WHT, GRN, and BLK connecting to Terminals 1, 2, 3, and 4.

The green wire carries Data Zero (D0), and the white wire carries Data One (D1). The red wire connects 12/24 VDC and the black wire is ground.

The wire colors may be different depending on the reader being installed. Refer to the literature provided with the reader for wire coding, wire distance, cable type (such as shielded), and other specifications.

Wiegand Status Indicator Outputs

Terminals 5, 6, and 7 provide connections for Remote LED Control, Remote Annunciation, and Armed Status indicators.

LC (Remote LED Control)

Remote LED Control provides an unsupervised switched ground for a visual indicator that turns on when the relay activates. Connect the wire from the LC Terminal 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.

LC Wire Color	LED Color
Orange	Green
Brown	Red

RA (Remote Annunciation)

Remote Annunciation provides an unsupervised switched ground for a remote annunciator that turns on when the Zone 2 Bypass timer expires. Connect the wire from the RA Terminal 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.

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 a wire from the AS Terminal to an armed status indicator.

 **Caution:** Status indicator outputs support a maximum of 100 mA per terminal. Exceeding the maximum rating on LC, RA, or AS terminals can damage equipment.

Typical Wiegand Card Reader

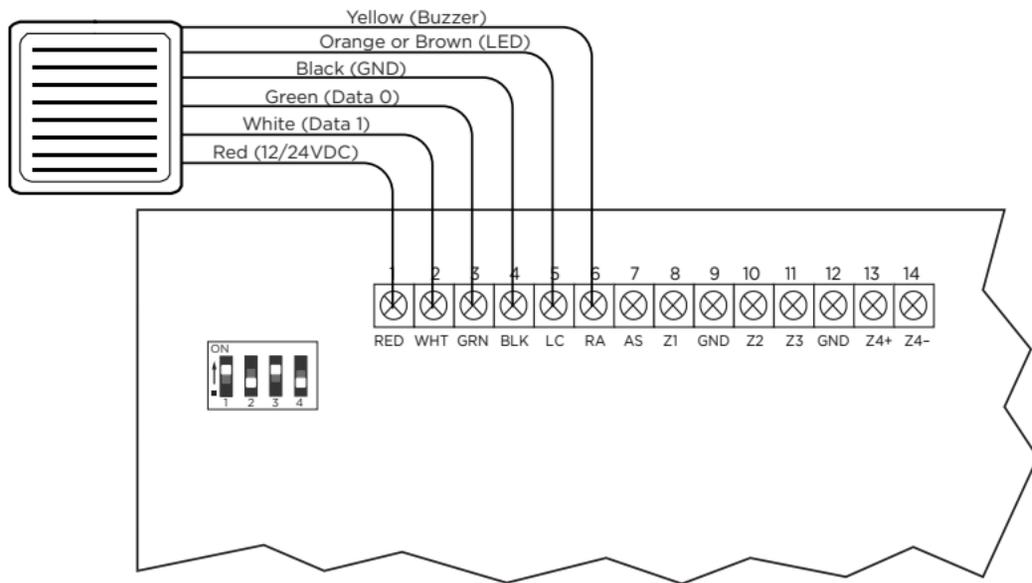


Figure 9: Wiegand Card Reader Wiring

6b *Connect an OSDP Card Reader*

The 734INT provides 12/24 VDC to the reader on the RED terminal connection and two-way data transmission on the GRN and WHT connection. Only one OSDP reader can be connected to a module.

Use 24 AWG or larger two conductor RS-485 cable to connect a reader to module terminals. For data transmission, connect the A (485 -) wire to the GRN terminal and the B (485 +) wire to the WHT terminal. For reader power, connect the red (DC +) wire to the RED terminal and the black (DC -) wire to the BLK terminal. Refer to Figure 10.

Wire colors may be different depending on the reader. Refer to literature provided with the reader for wire coding, distance, and other specifications.



Note: OSDP card readers require 734INT Access Control modules with PCB Rev 6 and higher.

OSDP Reader LED Operation

OSDP readers connected to 734INT modules provide visual indication of relay condition, connection type, and encryption status with a red and green LED. Enable reader LED operation in **LED CONTROL**.

If enabled, the reader LED is turned on and operates the same as a Wiegand reader LED, lighting green when the module relay activates. Visual indication for connection and encryption status functions as follows:

- **Fast blink (50 ms interval)**—Connection secure, encrypted with 128-bit AES and your custom secure key.
- **Slow blink (100 ms interval)**—Connection encrypted with the default SIA secure key.
- **None**—Connected, but not secure or encrypted.

If disabled, the reader LED is turned off and does not operate in any condition.

OSDP Reader Annunciation

OSDP readers connected to 734INT modules provide audible indication of card reads. Enable reader annunciation in **BUZZER CONTROL**.

If enabled, the reader's internal annunciator follows normal RA terminal operation.

If disabled, the reader's internal annunciator will beep once when a credential is presented.

OSDP Card Reader

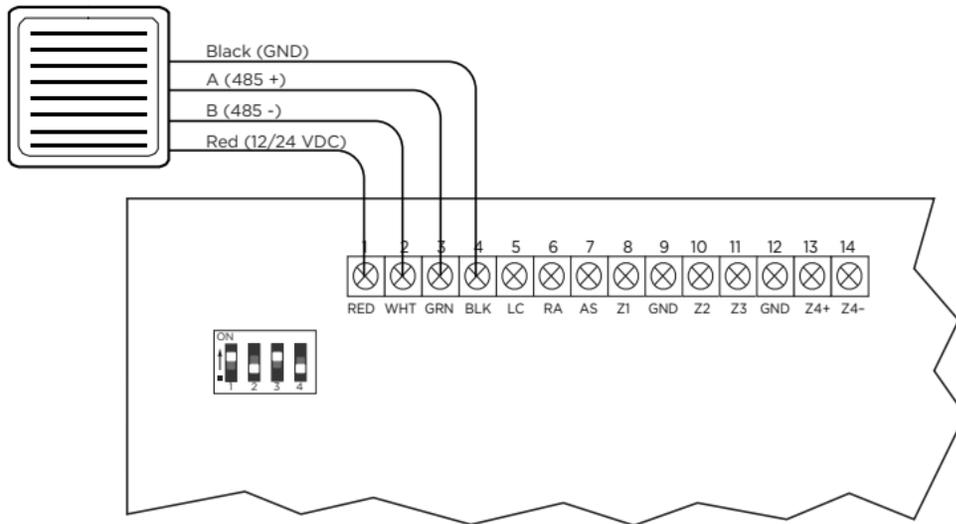


Figure 10: OSDP Card Reader Wiring

OSDP Status Indicator Outputs

Terminals 6 and 7 provide connections for Remote Annunciation and Armed Status indicators.

RA (Remote Annunciation)

Remote Annunciation provides an unsupervised switched ground for a remote annunciator that turns on when the Zone 2 Bypass timer expires. Connect the wire from the RA Terminal 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.

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 a wire from the AS Terminal to an armed status indicator.

 **Caution:** Status indicator outputs support a maximum of 100 mA per terminal. Exceeding the maximum rating on LC, RA, or AS terminals can damage equipment.

7 *Set the 734INT Address*

To set the 734INT address, move the DIP switches on the PCB to the appropriate positions. See the following sections, Figure 11, and Table 2 to determine how to set Keypad Bus or AX-Bus addresses.

Keypad Bus Addresses Explained

Each Keypad Bus address can accommodate one door output and four expansion zones. A 734INT with an address of 2 on the Keypad Bus would represent door 2 and zones 21-24. A 734INT with a keypad address of 14 would represent door 14 and zones 141-144.

AX-Bus Addresses Explained

XR550INT panels are capable of access control expansion using any of the five AX/LX-Bus headers (AX/LX500, 600, 700, 800, and 900). An AX-Bus address can accommodate one door output and one expansion zone. Because the 734INT has a built-in four-zone expander, three extra zones will be mapped to the 734INT automatically.

A 734INT with an address of 1 on AX500 would represent door 501 and zones 501-504. A 734INT with an address of 2 on AX500 would represent door 505 and zones 505-508. A 734INT with an address of 1 on AX700 would represent door 701 and zones 701-704.



Note: Hardwired zone expanders and modules do not communicate on an AX-Bus. Doors connected to the AX-Bus do not have programmable device or communication types and do not have assignable display areas.

734INT Address Table

To set the module's address, move the DIP switches to the appropriate positions. See Figure 11 for Keypad Bus and AX-Bus DIP switch positions.

Keypad Bus		AX-Bus									
DEVICE/ DOOR	ZONES										
1	11-14	501	501-504	601	601-604	701	701-704	801	801-804	901	901-904
2	21-24	505	505-508	605	605-608	705	705-708	805	805-808	905	905-908
3	31-34	509	509-512	609	609-612	709	709-712	809	809-812	909	909-912
4	41-44	513	513-516	613	613-616	713	713-716	813	813-816	913	913-916
5	51-54	517	517-520	617	617-620	717	717-720	817	817-820	917	917-920
6	61-64	521	521-524	621	621-624	721	721-724	821	821-824	921	921-924
7	71-74	525	525-528	625	625-628	725	725-728	825	825-828	925	925-928
8	81-84	529	529-532	629	629-632	729	729-732	829	829-832	929	929-932
9	91-94	533	533-536	633	633-636	733	733-736	833	833-836	933	933-936
10	101-104	537	537-540	637	637-640	737	737-740	837	837-840	937	937-940
11	111-114	541	541-544	641	641-644	741	741-744	841	841-844	941	941-944
12	121-124	545	545-548	645	645-648	745	745-748	845	845-848	945	945-948
13	131-134	549	549-552	649	649-652	749	749-752	849	849-852	949	949-952
14	141-144	553	553-556	653	653-656	753	753-756	853	853-856	953	953-956
15	151-154	557	557-560	657	657-660	757	757-760	857	857-860	957	957-960
16	161-164	561	561-564	661	661-664	761	761-764	861	861-864	961	961-964

Table 2: Device Addresses and 734INT Zone Numbers

PROGRAM THE PANEL

To access the Programmer menu, reset the panel, and enter **6653** (PROG) for the XR International Series. For the XT International Series, enter **665** (PRO). Press **CMD**.

After completing each of the following steps, press **CMD** to advance to the next option. Refer to the panel programming guide as needed.

DEVICE SETUP

DEVICE SETUP

Advance to **DEVICE SETUP**, then press any select area or top row key to enter the setup menu.

DEVICE SETUP
DEVICE NO: -

Device Number

Set the module's address. For information about valid addresses, refer to Table 2.

DEVICE SETUP
UNUSED

Device Name

Press any select area or top row key, then enter a name for the module.

DEVICE SETUP
TYPE: **DOOR**

DEVICE SETUP
COMM TYPE: **AX-BUS**

Device Type

Press any select area or top row key, then select **DOOR** as the device type.

Communication Type

If the module is connected to the Keypad Bus, select **KPD** (Keypad Bus). If the module is connected to the AX-Bus, select **AX-BUS**. Press any select area or top row key to display available options.

Configure additional options as needed. To configure specific options for the module locally, do not program **CARD OPTIONS** or **734 OPTIONS** in Device Setup.

PROGRAM THE 734INT

When you program a 734INT, you can use a keypad connected to the 734INT programming header and set to address 1. For 12 V applications, connect the keypad to the module using a Model 330 4-wire harness. For 24 V applications, connect the keypad to the module using a Model 330-24 4-wire programming harness with in-line resistor.

 **Caution:** Do not connect a keypad using a standard Model 330 harness if using a 24 V power supply! Damage to the keypad could occur.

You can also program the 734INT from an XR150INT/XR550INT Series panel. If you choose to program the 734INT from the panel, all future programming should be performed through the panel. The panel's programming overrides any programming performed from a keypad connected to the 734INT. While the 734INT is in programming mode, it will not be able to communicate with the panel.

 **Caution:** OSDP readers can only be programmed locally from the module with a keypad. To properly bond the reader to the module, the 734INT must be new or initialized and the reader must be new or factory reset. After programming is complete and the keypad is disconnected, the reader is bonded to the module and cannot be reprogrammed with a different secure key until it is factory reset by the manufacturer.

734INT PROGRAMMING
VER VVV MM/DD/YY

PROGRAMMER MENU

When you connect the keypad to the 734INT module, the version number and release date display. Press **CMD** to advance to Initialization Options.

INITIALIZE ALL?
NO YES

INITIALIZATION OPTIONS

These options can set the 734INT module's programming memory back to factory defaults. Press any select key or area to enter the Initialization Menu. Press **CMD** to advance to "Access Options".



Note: If programming an OSDP reader, the module must be initialized and the reader must be new or set to factory defaults by the manufacturer.

ARE YOU SURE?
YES NO

Initialize Confirm Option: After selecting **YES** to clear the Access Options, the 734INT 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.

READER PROTOCOL
TYPE **WIEGAND**

READER PROTOCOL:
WIEGAND OSDP

LED CONTROL:
 NO YES

BUZZER CONTROL:
 NO YES

ACCESS OPTIONS

Reader Protocol Type

Set the 734INT to work with Wiegand or OSDP card readers. Press any top row key or select area to change the module's Reader Protocol Type. The default is **WIEGAND**.

If you choose Wiegand, the menu advances to "Activate Zone 2 Bypass". If you choose OSDP, the menu advances to OSDP LED Control.

OSDP LED Control

Select **YES** to enable reader LED operation. Select **NO** to disable reader LED operation. For more information, refer to Connect an OSDP Card Reader.

OSDP Buzzer Control

Select **YES** to enable built-in reader annunciation. Select **NO** to disable built-in reader annunciation. For more information, refer to Connect an OSDP Card Reader.

SECURE KEY

OSDP Secure Key

The secure key is programmed into the OSDP reader and is used to establish 128-bit AES encrypted two-way communication between the reader and module.

Record this key and store it in a secure location away from the module and reader. After the reader is bonded to the module, the secure key cannot be changed in the reader or retrieved from 734INT programming. Replacement modules can be bonded to any compatible reader with the reader's secure key.

 **Caution:** OSDP readers can only be programmed locally from the module with a keypad. To properly bond the reader to the module, the 734INT must be initialized and the reader must be new or factory reset. After programming is complete and the keypad is disconnected, the reader is bonded to the module and cannot be reprogrammed with a different secure key until it is factory reset by the manufacturer.

SECURE KEY

Enter a secure key up to 16 alphanumeric characters. These characters are visible until **CMD** is pressed.

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 2. The default is **NO**.

If the door being released by the 734INT module is protected (contact installed), a programmable bypass entry/exit timer can be provided by connecting its contact wiring to module zone 2. When the onboard Form C relay activates and the user opens the door connected to zone 2, the zone 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 734INT 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. The range is 20-250 seconds. Press any select key or area to enter the number of seconds. The default is **40** seconds. Figure 12 shows how the bypass option works.

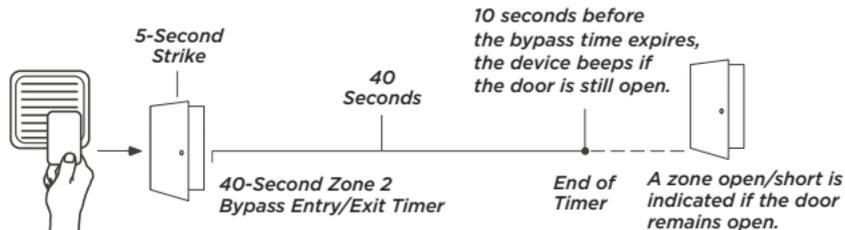


Figure 12: Zone 2 Bypass Timeline

RELOCK ON ZONE 2
CHANGE? **NO** YES

Relock on Zone 2 Change

Selecting **YES** turns the relay off when zone 2 changes state. Selecting **NO** leaves the relay on when zone 2 changes state. Turning off the relay allows a long strike time to be automatically ended upon zone 2 change 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 motion sensing device or a mechanical switch to zone 3 to provide REX capability to the system. Zone 3 can be used to activate the strike relay and bypass or activate bypass only. For zone wiring details, refer to Figure 8.

Activate Strike Relay and Bypass

Wire zone 3 as normally open with a 1k Ohm EOL resistor.

When zone 3 shorts, the onboard 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.

Activate Bypass Only

Wire zone 3 as normally closed with an in-line 1k Ohm resistor.

When zone 3 opens from a normal state, only a bypass occurs and the onboard relay does not activate.

ZN 3 REX STRIKE
TIME: **5**

ACTIVATE ONBOARD
SPEAKER? **NO** YES

CARD FORMATS
DMP CUSTOM ANY

Zone 3 REX Strike Time

Enter the number of REX seconds to elapse. The range is 5 to 250 seconds. Press any select key or area to enter the number of seconds. The default is **5** seconds.

Activate Onboard Speaker

Select **YES** to enable the onboard piezo 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 Formats

Select **DMP** to allow credentials that use a 26 - 45 bit data string. The menu advances to "Require Site Code".

Select **CUSTOM** to disable DMP format and program slots 1-8 as needed. The menu advances to "Card Format Number".

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. The menu advances to "No Communication with Panel".

The default card format is **DMP**.

CARD FORMATS
FORMAT NO: -

Card Format Number

Notice: If you see CARD OPTIONS, refer to LT-0737C.

Select the slot number (1-8) that you want to program for a custom non-DMP card format. The format that is programmed into slot 1 is the default format. In the event that a card with an unrecognized format is used, that card will be read in the format that is programmed in slot 1. To restrict card reads to specific formats, only program slots 2-8.

See “Public Card Formats” for some publicly available card formats that can be used with the 734INT. Other private or custom formats may also be compatible. Please contact the credential supplier or manufacturer for the bit structure.



Note: If you select slot 1 and you are upgrading from XR panel version 182 or earlier, **FORMAT NAME** will automatically be named **SINGLE CARD FORMAT** and **WIEGAND CODE LENGTH** will default to 45.

FORMAT NAME
UNUSED

WIEGAND CODE
LENGTH: **26**

Format Name

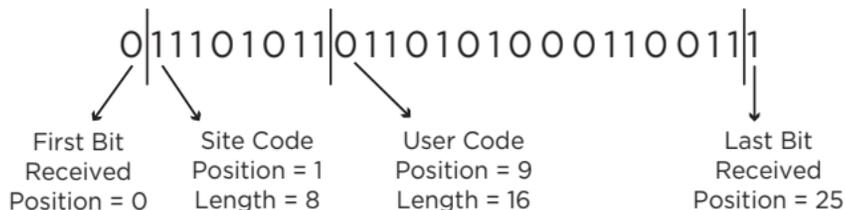
Press any select area to rename the card format. Press **CMD** to save and advance.

Wiegand Code Length

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

Press any select key or area to enter a number between 1-255 to equal the number of bits. Default is **26** bits.

An access card contains data bits for a site code, user code, and start/stop/parity bits. The starting position, location, and code length must be determined and programmed into the keypad. See Figure 13.



Example: Wiegand Code Length = 26 bits

Figure 13: Wiegand Data Stream Bit Location

SITE CODE

POS: **1** LEN: **8**

Site Code Position and Length

Enter the site code start position and length in the data string. Press select area 2 to clear the site code start position and enter a number between 0-255. Press **CMD** to save. Default is **1**.

Press select area 4 to clear the site code length and enter a number between 1-24. Press **CMD** to save. Default is **8**.

USER CODE

POS: **9** LEN: **16**

User Code Position and Length

Define the user code start bit position and length. Press select area 2 to clear the user code position and enter a number between 0-255. Press **CMD** to save. Default is **9**.

Press select area 4 to clear the user code length and enter a number between 16-64. Press **CMD** to save. Default is **16**.

REQUIRE SITE
CODE: **NO** YES

Require Site Code

Press the top row select key or area under **YES** to use a site code and press **CMD** to view the site code entry display. Press **NO** to advance to **NO OF USER CODE DIGITS**. Default is **NO**.

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 1:

Site Code Display: You can program up to eight 8-digit site codes. The site code range is 0-16,777,214.

In the keypad display, enter site code 1 and press **CMD**. The display will ask for site code 2 followed by site code 3 and so on. When you have selected the site code you want to change, press **CMD**.

NO OF USER CODE
DIGITS:

5

Number of User Code Digits

The 734INT module recognizes user codes from 4-12 digits long. Press any top row select key or area to enter a user code digit length. This number must match the user code number length being programmed in the panel. The device will recommend a number of user code digits based on the user code length. Default is **5**.

All bits are read and converted into a decimal number string. The number string is left padded with 0 (zero) if needed for long user code lengths.



Example:	# decoded	1234567
	10 digits	0001234567
	4 digits	4567

CARD FORMATS
26 BIT ADDED

Card Format Added/Changed (Custom Format)

When a custom card format is added successfully, the keypad displays xx **BIT ADDED**, where xx is the Wiegand code length. When the format is changed, the keypad displays xx **BIT Changed**. Press **CMD**. The menu returns to “Card Format Number”. Program another custom card format or press **CMD** to advance to **NO COMM WITH PNL**.

NO COMM WITH PNL
OFF

No Communication with Panel

Define the relay action when communication with the panel has not occurred for 5 seconds: **OFF**, **SITE**, **ANY**, **ON**, or **LAST**. Default is **OFF**. Press any select key or area to change the default relay action:

OFF SITE ANY ON

Press the first select key or area 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, the relay remains on for the door strike duration but turns off at the end of the door strike timer.

OFF SITE ANY ON

Press the second select key or area 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. Refer to “Require Site Code” for more information.

OFF SITE ANY ON

Press the third select key or area to choose **ANY** (Any Wiegand Read). Access is granted when any Wiegand string is received.

OFF SITE ANY ON

Press the fourth select key or area to choose **ON** (Relay Always On). The relay is always on.

LAST

Press **CMD** to display additional actions. Press the first select key or area to choose **LAST** (Keep Last State). The relay remains in the same state and does not change when communication is lost.

REMOVE KEYPAD

REMOVE KEYPAD

After programming is saved, the **REMOVE KEYPAD** option continually displays with no timeout if the keypad remains connected to the module. After five seconds, the piezo begins sounding continually. To disconnect the keypad and silence the piezo, remove the keypad harness.

COMPATIBILITY

Wiegand

XR150INT/XR550INT Series Panels

XT30INT Series Panels

OSDP

XR150INT/XR550INT Series Panels

734INT Series modules with PCB Rev 6 and higher

Public Card Formats

CARD FORMAT	WIEGAND CODE LENGTH	SITE CODE POSITION	SITE CODE LENGTH	USER CODE POSITION	USER CODE LENGTH	USER CODE DIGITS
H10301 26-Bit	26	1	8	9	16	5
H10302 37-Bit w/o FAC	37	0	1	1	35	11
H10304 37-Bit w/ FAC	37	1	16	17	19	6
Farpointe 39-Bit	39	1	17	18	20	7
Corporate 1000 35-Bit	35	2	12	14	20	6
Corporate 1000 48-Bit	48	2	22	24	23	7
DMP Bluetooth 56-Bit	56	1	16	17	34	10

Readers and Credentials

125 kHz WIEGAND READERS	
P-300	Cascade Proximity Reader
P-500	Alps Proximity Reader
P-620	Denali Proximity Reader With Keypad
P-640	Patagonia Proximity Reader With Keypad
MP-5365	MiniProx™ Proximity Reader
MX-5375	MaxiProx® Proximity Reader
PP-6005B	ProxPoint® Plus Proximity Reader
PR-5355	ProxPro Proximity Reader With Keypad
PR-5455	ProxPro® II Proximity Reader
TL-5395	ThinLine II® Proximity Reader
SR3	Bluetooth and Proximity Reader

125 kHz PROXIMITY CREDENTIALS	
PSC-1	Standard Light Proximity Card
PSK-3	Proximity Key Ring Tag
PSM-2P	ISO Imageable Proximity Card
1306	Prox Patch™
1326	Proxcard II® Card
1346	ProxKey III® Access Device
1351	ProxPass®
1386	IsoProx II® Card

BLUETOOTH MOBILE CREDENTIALS
Mobile Credentials (SR3)

13.56 MHz WIEGAND SMARTCARD READERS	
DELTA3*	Mullion Mount Smartcard Reader
DELTA5*	Single-Gang Box Mount Smartcard Reader
DELTA6.4*	Smartcard Reader With Keypad
CSR-35P	Bluetooth Smartcard Reader

13.56 MHz OSDP SMARTCARD READERS	
DELTA3-OSDP*	Mullion Mount OSDP Smartcard Reader
DELTA5-OSDP*	Single-Gang Box Mount OSDP Smartcard Reader
DELTA6.4-OSDP*	OSDP Smartcard Reader With Keypad
CSR-35P-OSDP	Bluetooth OSDP Smartcard Reader

13.56 MHz SMARTCARD CREDENTIALS	
DE2	MIFARE* DESfire* EV2 Smartcard
CSK-2	MIFARE* DESfire* EV2 Key Fob Smartcard

OSDP capability for 734INT modules was designed and tested with Farpointe readers. Other reader brands may be usable, but have not been tested with 734INT modules and are not deemed compatible.

*Delta Proximity Readers and Credentials not evaluated by UL.

PRODUCT SPECIFICATIONS

Primary Power	8.5 VDC to 28.5 VDC
Current Draw	
Standby	240 mA (Includes 200 mA for proximity reader)
Alarm	260 mA (Includes 200 mA for proximity reader)
Form C Relay	35 mA at 12/24 VDC
Zones	5 VDC, 2 mA max
Dimensions	11.43 cm W x 7 cm H x 4.45 cm D
Weight	0.16 kg

KEYPAD BUS WIRING SPECIFICATIONS

- DMP recommends using 18 or 22-gauge unshielded wire for all keypad and AX-Bus/LX-Bus circuits. Do not use twisted pair or shielded wire for AX-Bus/LX-Bus and Keypad Bus data circuits. All 22-gauge wire must be connected to a power-limited circuit and jacket wrapped.
- On Keypad Bus circuits, to maintain auxiliary power integrity when using 22-gauge wire do not exceed 152.4 meters. When using 18-gauge wire do not exceed 304.8 meters. To increase the wire length or to add devices, install an additional power supply that is listed for Fire Protective Signaling, power limited, and regulated (12/24 VDC nominal) with battery backup.



Note: Each panel allows a specific number of supervised keypads. Add additional keypads in the unsupervised mode.

- Maximum distance for any one bus circuit (length of wire) is 762 meters regardless of the wire gauge. This distance can be in the form of one long wire run or multiple branches with all wiring totaling no more than 762 meters. As wire distance from the panel increases, DC voltage on the wire decreases. Maximum number of AX-Bus/LX-Bus devices per 762 meter circuit is 40.
- Maximum voltage drop between the panel (or auxiliary power supply) and any device is 2 VDC. If the voltage at any device is less than the required level, add an auxiliary power supply at the end of the circuit. When voltage is too low, the devices cannot operate properly.

For additional information refer to the panel's Installation Guide or the 710 Installation Sheet (LT-0310).

INTERNATIONAL CERTIFICATIONS

Security Grade: 3

Environmental Class II



Intertek (ETL) Listed

EN 50130-4:2011+A1:2014

Alarm systems. Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems

EN 50130-5:2011

Alarm systems. Environmental test methods.

EN 50131-1:2006+A1:2009

Alarm systems. Intrusion and hold-up systems. System requirements.

EN 50131-3:2009

Alarm systems. Intrusion and hold-up systems. Control and indicating equipment.

EN 60839-11-1:2013	Alarm and electronic security systems. Electronic access control systems. System and components requirements.
EN 61000-3-2:2006+A1+A2	Electromagnetic compatibility (EMC) — Part 3 - 2: Limits — Limits for harmonic current emissions.
EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection.
EN 61000-6-4:2007	Emission standard for industrial environments

