

711 Zone Expansion Module

Description

Zone expander modules allow you to increase the number of reporting zones available on DMP panels. Refer to the panel installation guide for more information about zone expansion modules and the maximum number allowed per panel. The modules connect to the panel 4-wire Keypad Bus or LX-Bus™ and are set to an address that determines the reporting zone number. The 711 provides one Type A Class B zone.

Installing the 711 Module

The 711 housing easily mounts to any flat surface using the mounting holes provided in the base. Snap on the cover to complete the installation.

711 Fits in POPIT Case

The 711 module can be easily installed in the same plastic case used by the Radionics D8127 POPIT.

Wiring the 711 Module

Connect the Red, Green, Yellow, and Black wires from the panel Keypad Bus or LX-Bus™ to the matching terminals or harness wires on the zone expander.

Caution: Do not use looped wire under terminals. Break wire run to provide supervision of connections.

Zone Expander Data LED

The zone expander LED flashes each time the module responds to a poll from the panel. If there is a problem with the panel, panel programming, or the Green data wire between the panel and the zone expander module, the LED stops flashing and "System Trouble" appears in the keypad display.

Zone Programming

You can program the zone expander module zone with any panel Burglary or Fire zone type or as an Arming type zone when used with keyswitches.

Setting Address Switches

The 711 Zone Expander uses two rotary switches identified as TENS and ONES to set the module address. For LX-Bus addresses, refer to Table 1 and set the switches to match the last two digits of the address. For example, for address 502 on an XR550 Series panel set the TENS switch to zero and the ONES switch to two as shown in Figure 2. For Keypad Bus addresses, set the TENS switch to 0 (zero) or 1 and the ONES switch to the corresponding keypad address number as listed in Table 2.

LX-Bus Zone Numbers

Refer to Table 1 for a partial list of XR100/XR500 and XR350/XR550 Series panel LX-Bus zone numbers. XR100 and XR150 Series panels only use LX-Bus number one (1(LX500)).

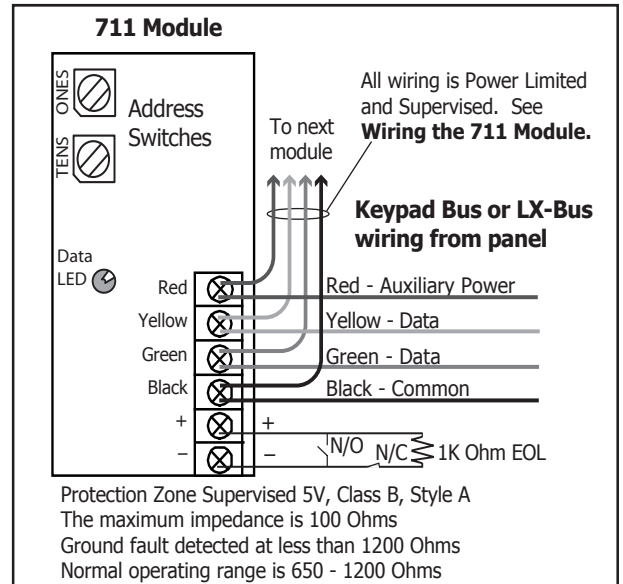


Figure 1: 711 Module Wiring

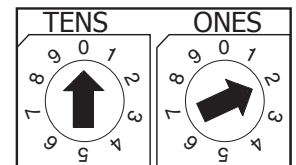


Figure 2: Switches

LX-Bus Address	LX-Bus Number	Switches		Zone Number
		Tens	Ones	
501	1(LX500)	0	1	501
506	1(LX500)	0	6	506
623	2(LX600)	2	3	623
654	2(LX600)	5	4	654
742	3(LX700)	4	2	742
768	3(LX700)	6	8	768
833	4(LX800)	3	3	833
877	4(LX800)	7	7	877
919	5(LX900)	1	9	919
994	5(LX900)	9	4	994

Table 1: LX-Bus Zone Numbers



Keypad Bus Zone Numbers

The 711 module uses zone 1 only. The last three zone numbers cannot be used for other devices. For example, turn the 711 switches to address 02 (TENS = 0, ONES = 2) to set the module zone number to zone 21. Zones 22, 23, and 24 cannot be used.

Refer to Table 2 for Keypad Bus zone numbers and the panels where they operate.

Wiring Specifications for Keypad and LX-Bus

1. DMP recommends using 18 or 22-gauge unshielded wire for all keypad and LX-Bus circuits. **Do Not** use twisted pair or shielded wire for LX-Bus and Keypad Bus data circuits. To maintain auxiliary power integrity when using 22-gauge wire do not exceed 500 feet. When using 18-gauge wire do not exceed 1,000 feet. Install an additional power supply to increase the wire length or add devices.
2. Maximum distance for any one circuit (length of wire) is 2,500 feet 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 2,500 feet. As wire distance from the panel increases, DC voltage on the wire decreases.
3. Maximum number of devices per 2,500 feet circuit is 40.
Note: Each panel allows a specific number of supervised keypads. Add additional keypads in the unsupervised mode. Refer to the panel installation guide for the specific number of supervised keypads allowed.
4. Maximum voltage drop between the panel (or auxiliary power supply) and any device is 2.0VDC. 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.

Refer to the panel installation guide and LX-Bus/Keypad Bus Wiring Application Note (LT-2031). Also see the 710 Module Installation Sheet (LT-0310) for more information.

Compliance Listing Specifications

UL

To comply with ANSI/UL 365 Police-Connected Burglary System or ANSI/UL 609 Local Burglary Alarm Systems, the module must be mounted in a listed enclosure with a tamper installed.

The keypad and LX-Bus are rated Class B, Style 3.5.


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

Place the 711 and other zone expander modules in a listed enclosure and connect a DMP Model 307 Clip-on Tamper Switch to the enclosure programmed as a 24-Hour zone.

The 711 zone can only be used in Low Risk applications. Medium or High Risk applications must use panel zone inputs.

Keypad Address	Switches Tens Ones		Zone Number		
			XT30/50	XR100, XR150	XR500, XR350/ XR550
1	0	1	11	11	11
2	0	2	21	21	21
3	0	3	31	31	31
4	0	4	41	41	41
5	0	5	51	51	51
6	0	6	61	61	61
7	0	7	71	71	71
8	0	8	81	81	81
9	0	9	N/A	N/A	91
10	1	0	N/A	N/A	101
11	1	1	N/A	N/A	111
12	1	2	N/A	N/A	121
13	1	3	N/A	N/A	131
14	1	4	N/A	N/A	141
15	1	5	N/A	N/A	151
16	1	6	N/A	N/A	161

Table 2: Keypad Bus Zone Numbers

Specifications	Certifications
Operating Voltage	8.8 to 15.0VDC
Operating Current	Standby
Standby	11mA
Alarm	+ 1.6mA per active zone
Zone Voltage	11mA
EOL Value	+ 2mA per active zone
Dimensions	5VDC, max 2mA
Wire Specification	1k Ohm
Compatibility	1.25" W x 2.75" H
All DMP panels with zone expansion capability.	Accepts 12 to 22 AWG wire
	California State Fire Marshal (CSFM) New York City (FDNY COA #6167) Commercial Burglar and Fire Accessory Zone Expander Signaling Device ANSI/UL 365 Police Station Connect Burglar Alarm Systems ANSI/UL 609 Local Burglar Alarm Units & Systems ANSI/UL 864 Fire Protective Signaling Systems ANSI/UL 985 Household Fire Warning System Units ANSI/UL 1023 Household Burglar Alarm System Units ANSI/UL 1076 Proprietary Burglar Alarm Units & Systems ANSI/UL 1610 Central Station Burglar Alarm Units ANSI/UL 1635 Digital Alarm Communication System Units ULC Subject-C1023 Household Burglar ULC/ORD-C1076 Proprietary Burglar ULC S304 Central Station Burglar ULC S545 Household Fire
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