711S ZONE EXPANSION MODULE

Installation Guide

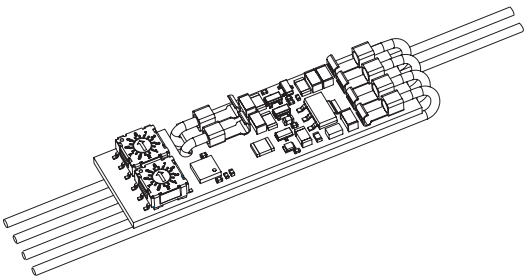

Figure 1: 711S Zone Expansion Module

DESCRIPTION

The 711S is a flying lead style, single-zone, addressable expansion module that allows 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 711S provides one Type A Class B zone.

Compatibility

All XT30/XT50 and XR150/XR550 Series Panels.

What is Included?

- 711S Expansion Module
- 1k Ohm Resistor

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ADDRESSING THE 711S MODULE

Setting Address Switches

The 711S Zone Expander uses two rotary switches identified as TENS and ONES to set the module address. Use a small screwdriver to set the address accordingly for Keypad Bus (See Table 1) or LX-bus (See Table 2). 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.

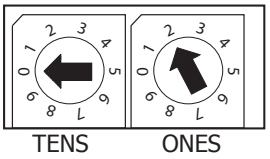

Figure 2: Switches

Keypad Bus Zone Numbers

The 711S module uses the first zone number only. The last three zone numbers cannot be used for other devices. For example, turn the 711S 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 1 for Keypad Bus zone numbers and the panels where they operate.

Keypad Address	Switches Tens	Switches Ones	Zone Number XT30/50	Zone Number XR150	Zone Number 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 1: Keypad Bus Zone Numbers

LX-Bus Zone Numbers

Refer to Table 2 for a partial list of XR550 Series panel LX-Bus zone numbers. XR150 Series panels only use LX500. For LX-Bus addresses set the switches to match the last two digits of the address.

LX-Bus Address	LX-Bus Number	Switches Tens	Switches Ones	Zone Number
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 2: Example LX-Bus Zone Numbers

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INSTALLING THE 711S MODULE

The 711S addressable zone expansion module is for use in smaller applications, such as installing in a pull station back-box or even in a recessed contact hole behind the contact.

Wiring the 711S Module

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

Caution: Do not use looped wire under terminals if wiring directly to the Keypad bus. Break wire run to provide supervision of connections.

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.
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).

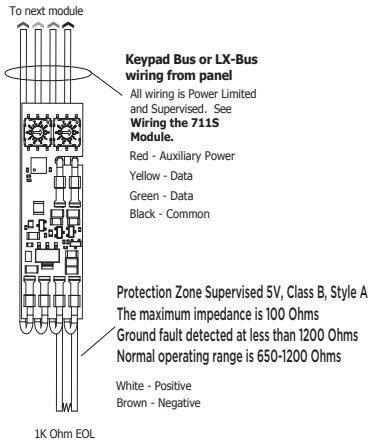

Figure 3: 711S Module Wiring

3 ZONE PROGRAMMING

You can program the 711S zone with any panel Burglary or Fire zone type or as an Arming zone type when used with keyswitches.

Zone Expander Data LED

The 711S 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.

4 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 (XR150/XR550 Series panels)

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

711S ZONE EXPANSION MODULE

Specifications

Operating Voltage	8.8 to 15.0 VDC
Operating Current	
Standby	4.2 mA
Alarm	4.7 mA
Zone Voltage	5 VDC, max 2 mA
EOL Value	1k Ohm
Dimensions	1.25” W x 2.75” H

Compatibility

All DMP panels with zone expansion capability

Certifications

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

Designed, engineered, and manufactured in Springfield, MO using U.S. and global components.

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