

ELEVATOR CONTROL

Application Note

INTRODUCTION

DMP panels offer end-to-end solutions for building security and automation. One such feature is Elevator Control used in small to medium commercial buildings such as offices, apartments, or condominiums with one elevator car.

CAPABILITY

Elevator Control performs a basic and enhanced access function. The basic set up can restrict access to the elevator whereby a user needs to present a credential to a reader or PIN pad outside of the elevator. The enhanced access feature restricts access to floors by requiring a credential to a reader or PIN pad inside the elevator.

BASIC FUNCTION

Basic Elevator Control disables the car-call button, which is commonly at the ground level, ensuring that access is only granted upon presenting a credential, such as a card or proximity key to the DMP reader. All other floors remain accessible by the elevator without a credential. This set up requires one DMP 734 module and one DMP reader at the main floor call button.

ENHANCED FUNCTION

The enhanced function disables select floors by installing a reader inside the elevator requiring a credential to access all secured floors. This set up requires one 734 module, one reader inside the elevator, and one or more 716-output modules, depending on the number of restricted floors. The user is required to present their access credential to activate the floor call buttons.

PRODUCT REQUIREMENTS

- XR150 or XR550 Panel
- 734 Wiegand Interface Module
- 716 Output Expansion Module

PROGRAMMING

The XR150 or XR550 assigning elevator access is managed through Output Groups in the DMP panel. It can be programmed from a DMP keypad, Remote Link or Dealer Admin site and can be managed with Entré Managed Access software. Output Groups 1 to 10 can be assigned by a user profile for elevator control. See the XR150/XR550 User Guide (LT-1278) Output Group section for additional information. See also LT-1232 XR Series Programming Guide section 13.1 - 13.4 for detailed output group programming information. This option allows the output group (relays) assigned to the user profile to turn ON when the device relay is activated for the programmed strike time. This could be used to operate an elevator control.

FEATURES

- 12,000 event buffer
- 10,000 user credentials and custom profiles
- Up to 10 customized output groups assigned to profiles to restrict and grant access to elevator call buttons
- Programmable call button schedules
- Panel can be housed in the elevator control room

INSTALLATION SPECIFICATIONS

Example of output groups programed to correspond to the illustration on Page 2:

Device Setup:

Program 734 device as Address 2 with the following parameters:

- Device Type: Door
- Communication: Keypad Bus
- Access Area 2
- Output Group Selected (*See Output Information*)

Output Information:

Program the following outputs:

- 501: Floor 1
- 502: Floor 2
- 503: Floor 3
- 504: Floor 4

Output Groups:

Program Output Group 1 as an all floor output group with outputs 501-504.

Program Output Group 2 as a restricted output group with outputs 501-502.

Profiles:

Create profile 11 as "All Elevator Access" with the following attributes:

- Access Area 2
- Output Group 1
- Door Access

Create profile 12 as "Floor 1-2 Access" with the following attributes:

- Access Area 2
- Output Group 2
- Door Access

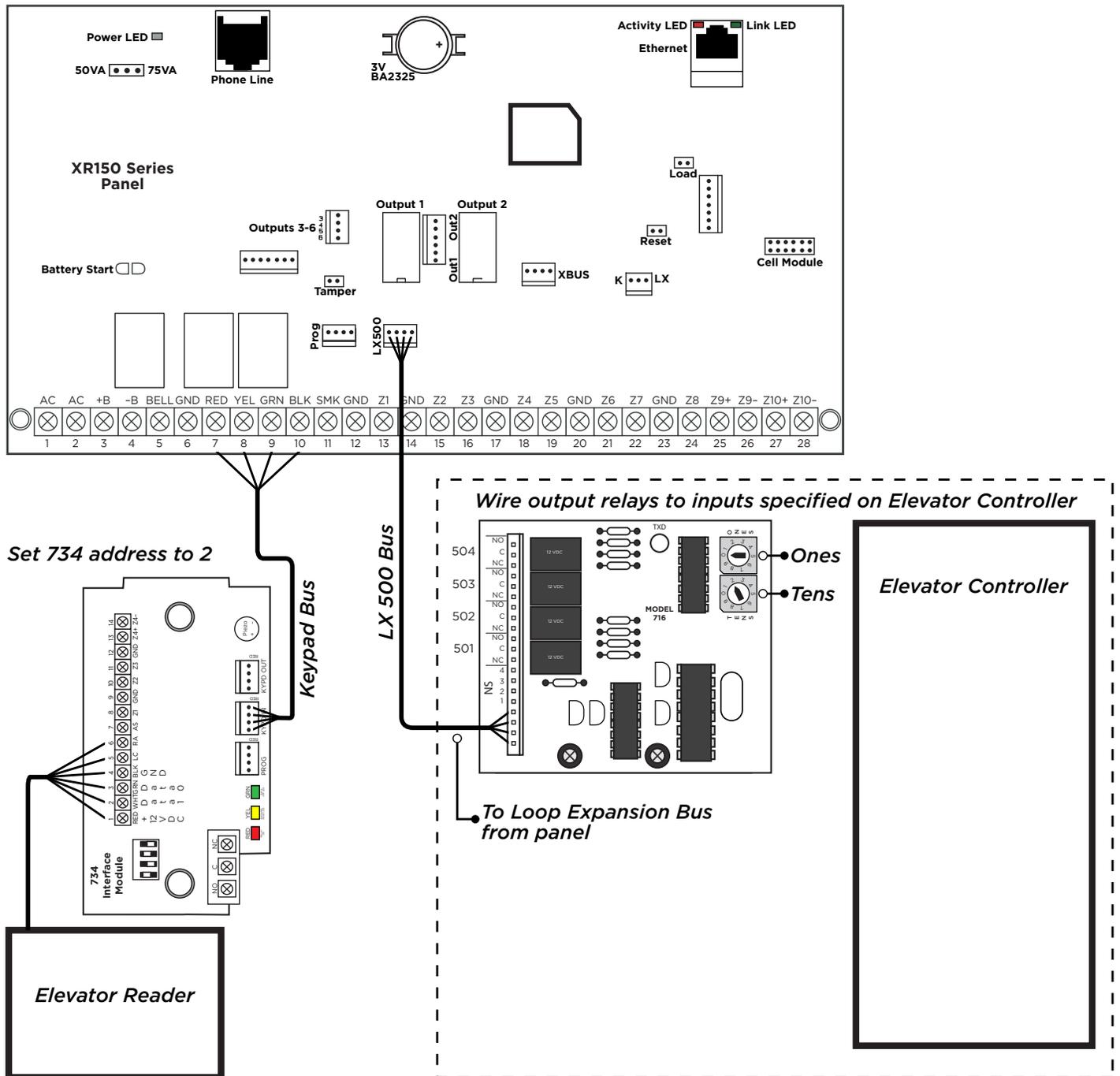


Figure 1: Example of Output Groups

BEST PRACTICES

1. Label the wire relay with a barrier strip to indicate the point of demarcation.
2. Verify the trigger required for elevator control input. The 716 can provide a dry contact closure or can switch voltage, up to 30 VDC and can draw up to 1 amp.
3. Carrier cable is required to be installed by an elevator technician.



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

LT-2047 20212

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2500 North Partnership Boulevard
Springfield, Missouri 65803-8877

800.641.4282 | DMP.com