ELK-M1 and Alarm.com LX30B Universal Communicator Setup Guide

APPLICATION:

The Alarm.com LX30B-Q50T Universal Communicator is a dial capture based cellular communicator. It captures alarm communications from the built-in dialer of the M1 control and forwards event signals to a monitoring center via AT&T cellular service. Once installed and configured, this communicator also allows the M1 to connect to the Alarm.com platform providing basic interactive features via the Alarm.com app; check system status, get alerts, and remotely arm and disarm. This setup guide will provide specific wiring and configuration details for using the Alarm.com LX30B Universal Communicator with the ELK M1 Gold Control panel.

* * IMPORTANT NOTE * *

Event reporting and interactive services require an active Alarm.com subscription and are subject to Alarm.com subscription fees.
**Please refer to Alarm.com installation instructions for specific details on the proper mounting, installation, and activation guidelines for the Alarm.com LX30B Universal Communicator**

WIRING INSTRUCTIONS

1. The LX30B-Q50T requires 12VDC operating voltage, with peak current draw of 125mA. To power from the M1 control, connect the +12V terminal of the communicator to the +VAUX terminal on the lower left side of the M1 board. Connect the GND terminal of the communicator to the NEG terminal on the M1 board.

   If desired, the communicator can be powered from an auxiliary source. The auxiliary power source must have a common negative with the M1 control to ensure proper operation of the communicator.

2. To connect the communicator to the built-in dialer of the M1, wire the T1 terminal of the communicator to the TIP terminal on upper right side of the M1 board. Connect the R1 terminal of the communicator to the RING terminal on the M1 board.

3. A programmable output is used to indicate current M1 arm status. The communicator requires a switched negative trigger on I/O 1 for this purpose. A dry contact relay output from the M1 main board or M1XOVR output expander can be used to switch negative to the communicator. Connect the GND terminal of the communicator to the COM terminal of the relay output. Connect the I/O 1 terminal of the communicator to the N/O (normally open) terminal of the relay (M1 main board Output 3 shown in wiring diagram).

4. Remote arm/disarm functionality requires the communicator to be connected to a keyswitch input on the M1 board. Connect the I/O 2 terminal of the communicator to the desired zone input on the M1 main board, or M1XIN input expander (M1 main board Zone 9 shown in wiring diagram).
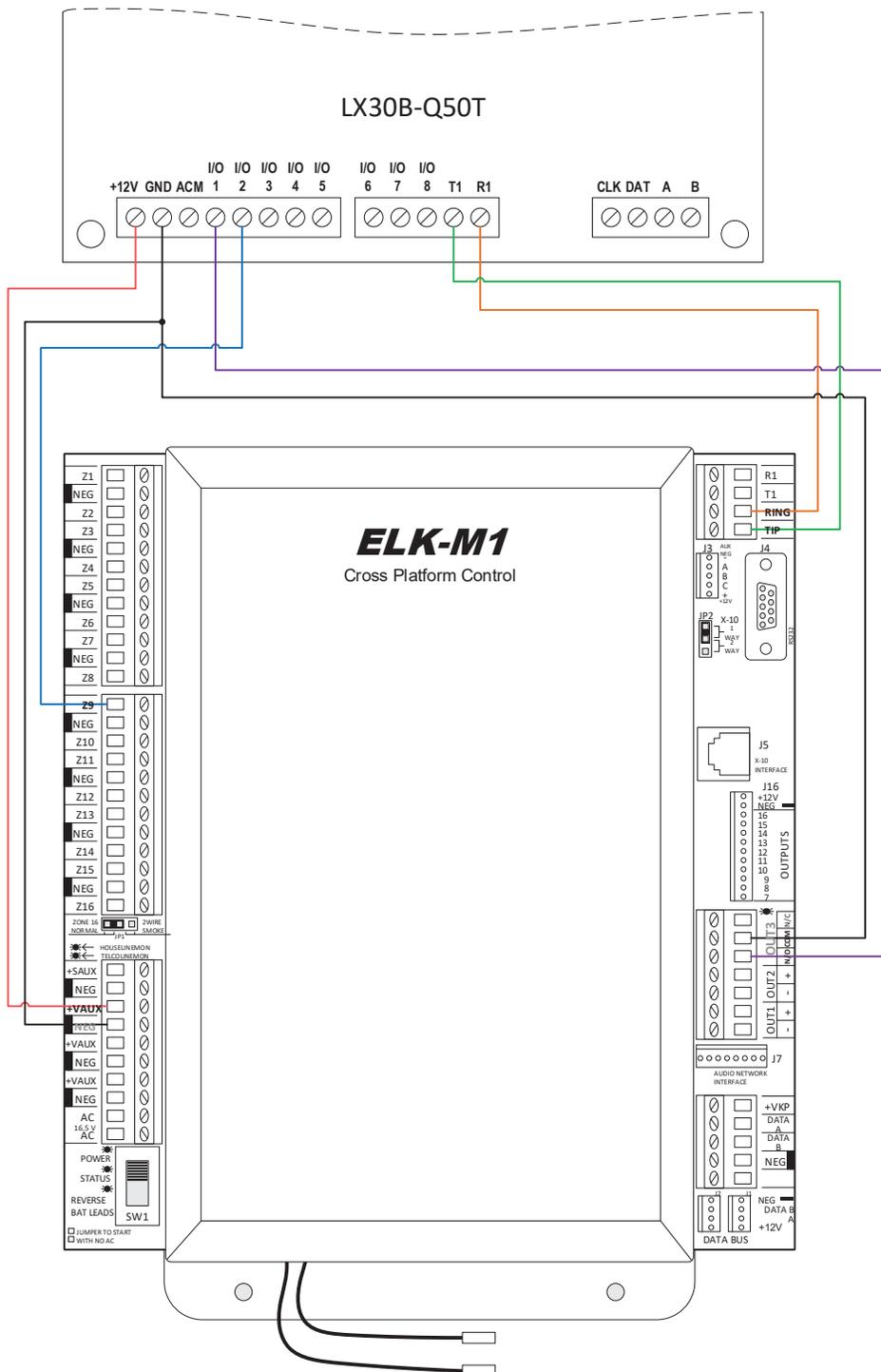
COMMUNICATOR CONFIGURATION

Event reporting through the LX30B communicator and Alarm.com requires configuration of the M1's built-in dialer. Use ElkRP to configure an telephone entry for the LX30B and enable reporting codes for desired events.

1. Right click on Telephone and choose New Telephone and create 1 telephone entry
2. Enter the desired name for the Telephone
3. Enter the CS receiver telephone number in the Number to Dial field.
4. Set the Reporting format to 1 = Contact ID
5. Enter the desired dial attempts in the Dial Attempts field (default =2).
6. Enter the reporting account number in the appropriate Area field(s).
7. Check the desired settings in the section labeled "Report the following using this number"
8. In the Communicator section, go to each of the category RCs pages, and enable reporting codes for the desired event by entering 01 in the Pulse column for each item. The corresponding Contact ID code will be automatically populated in the CID column for each enabled item.

KEYSWITCH ZONE CONFIGURATION

Remote arming and disarming from the Alarm.com app requires keyswitch configuration of the zone connected to I/O 2. Use the ElkRP programming software to configure the keyswitch zone in the M1 Control. Go to the Zones (Inputs) section of ElkRP and navigate to the zone page for the zone wired to the communicator.

1. Enter a name for the zone, up to 16 characters.
2. Set the Definition to 26 = Key Momentary Arm/Disarm. This definition allows the M1 to toggle between Armed Away and Disarmed each time the zone input is tripped.
3. Set the Type to 1 = Normally Closed. With this configuration an EOL resistor is not required and the zone input will trip when in the open state.
4. Set the Area to the area the Alarm.com app should operate. This will typically be Area 1.
5. It is not necessary to enable any attributes for the zone input.

ARM STATUS OUTPUT CONFIGURATION

If using an output below Output 65, the output can be named in the ElkRP Software. This can be helpful when referencing the output in Rules. Go to the Outputs page in the Automation section.

1. Enter a name for the output, up to 16 characters.
2. Uncheck the Show box. This will hide the output from user interfaces to avoid unintended activation that may cause synchronization issues with the Alarm.com app.

Use the M1 Rules engine to create rules that will change the state of the Arm Status output. This requires two rules:

- When the area is ARMED, turn the Arm Status output ON
- When the area is DISARMED, turn the Arm Status output OFF

If a system start-up occurs, as a result of a power cycle or other event, the Arm Status output will turn off. This can result in synchronization issues with the Alarm.com app. A rule can be used to check the arm state when system start-up occurs and set the Arm Status output to the correct state.

WHENEVER Our House (Area 1) ARM STATE BECOMES ARMED
     THEN TURN ADC Arm State (Out 3) ON
WHENEVER Our House (Area 1) ARM STATE BECOMES DISARMED
     THEN TURN ADC Arm State (Out 3) OFF
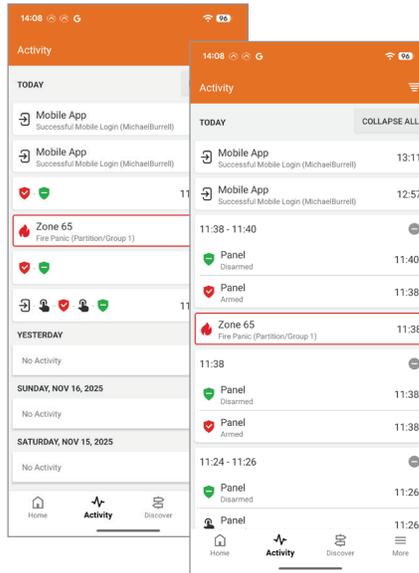
WHENEVER SYSTEM START UP OCCURS
   AND Our House (Area 1) ARM STATE = ARMED
     THEN TURN ADC Arm State (Out 3) ON
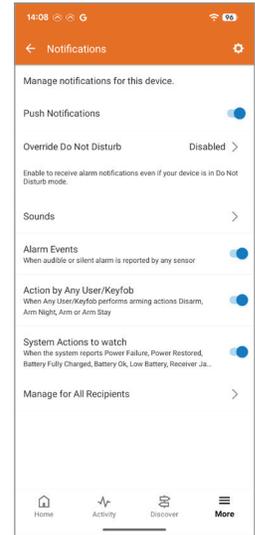
USING THE ALARM.COM APP
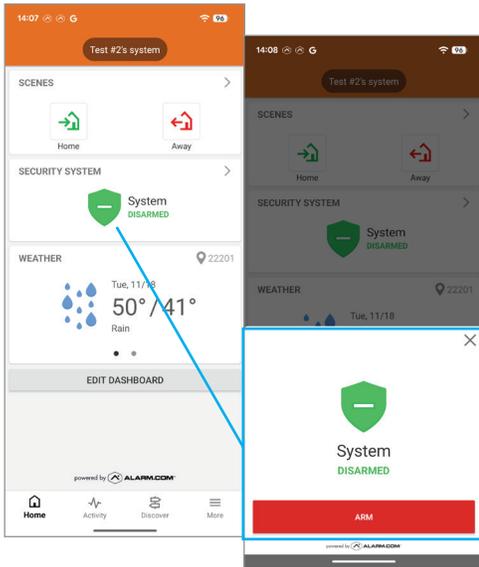
HOME PAGE

The SECURITY SYSTEM section of the Home Page displays the current arm status of the M1. Tap shield to access Arm/Disarm Options.

ACTIVITY

This Activity page displays system activity, including logins, arm/disarm event, alarm events, system troubles, etc. Entries may be grouped together based on time. Tap to expand.

NOTIFICATIONS

Tap More in the bottom menu, then tap Notifications. This page provides settings to enable/disable push notifications and configure sound settings.