

LX Dry Contact Interface Module - LXDCIM

Installation Instructions

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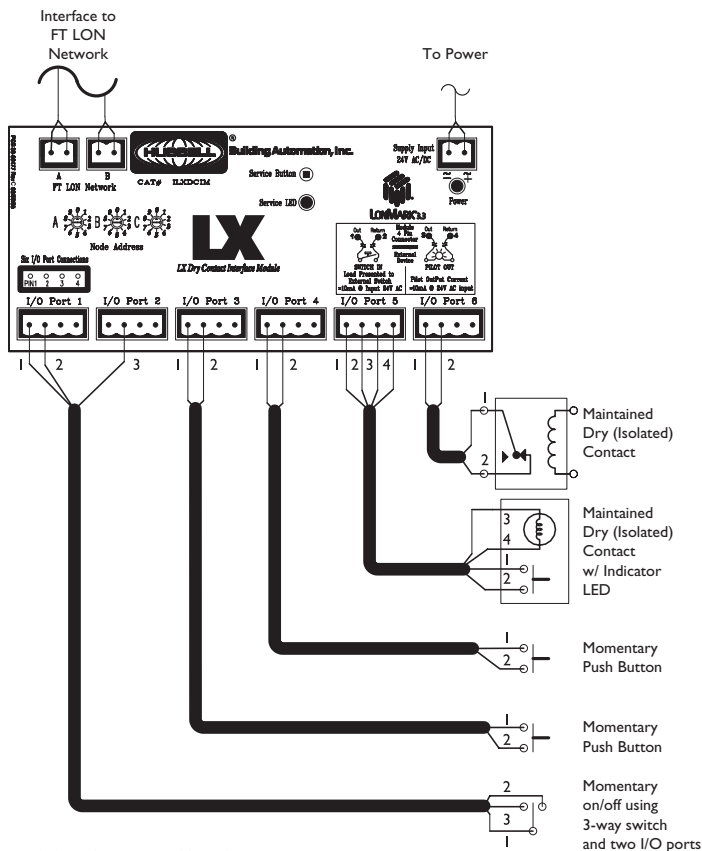
Overview

This document provides instructions for installing, connecting, and programming the LX Dry Contact Interface Module.

Precautions

- Read and understand all instructions before beginning installation.
- For installation by a licensed electrician in accordance with National and/or local Electrical Codes and the following instructions.
- Do not install or service unit with power applied. This may result in damage to unit and void of warranty.
- Use only approved materials and components as appropriate for installation.
- For indoor use only.
- NOTICE: Do not install unit if any damage to product is noticed.

Figure 1:
Wiring Diagram



Use 2, 3, or 4-conductor, 20AWG non-shielded cable as appropriate. 1000ft. maximum length.

Installation

1. Prepare the installation site as necessary. Rough-in and route power supply, LON network, and interface leads from the switch(es) to the installation site.
2. Install a length of DIN rail bracket (35mm x 7.5mm, 35mm x 15mm, or 32mm x 15mm "C" rail) and secure with screws. Each LXDCIM requires a 6.7 inches (170mm) length of DIN rail bracket.
3. Snap the LXDCIM on to the DIN rail bracket as shown in the Installation Diagram.
4. With power turned off, attach the power supply leads and the network leads to the LXDCIM per the Wiring Diagram using the 2-position terminal block connectors (provided).
5. Attach remote switch(es) and optional status indicator(s) to the LXDCIM I/O Port(s) per the Wiring Diagram using the 4-position terminal block connectors (provided).
6. Assign LXDCIM Lon Network Node Address as described below.
7. Apply power to the unit. Verify Power Indicator LED (Red) is on.
8. Program remote switch input functionality of each LXDCIM I/O Port as described below.

Dry Contact Interface Module I/O Port Functionality		
Contact Type	I/O Port Program Mode	I/O Port Functionality
Maintained Contact Switch Input	Maintained, Toggle	Closed contact = ON, open contact = OFF
	Maintained, On Only	ON functionality with contact closure
	Maintained, Off Only	OFF functionality with contact release (open)
Momentary Contact Switch Input	Push Button, Toggle	First actuation = ON, second actuation = OFF
	Push Button, On Only	ON functionality with contact closure
	Push Button, Off Only	OFF functionality with contact closure
	Preset	Assigned Preset activated/reactivated with contact closure
	Timed On	Timer activated/reactivated with contact closure

Assigning Dry Contact Interface Module Lon Network Node Address

The LXDCIM network address is set via three rotary dials located on the unit's faceplate. Each LXDCIM is factory set to network address 001 prior to shipping.

For LX-only networks, each LXDCIM on the network will need to be assigned a unique network address. Addresses must be assigned in sequential order starting with address 001. For LonWorks Open System networks, each LXDCIM should be assigned address 000. This will put the LXDCIM into LonMark Mode.

To set the address, rotate the appropriate dial(s) with a small, blade screwdriver until the indicator points to the appropriate number. Assign each LXDCIM its address as delineated in the project plans and/or Dry Contact Interface Module Address Log as applicable. Dial "A" sets the most significant digit of the node address and Dial "C" sets the least significant digit of the node address. For example, address 001 is set by Dial A = "0", Dial B = "0" and Dial C = "1".

Note: If the address is changed with power applied, the power must be cycled off then back on for the address to become effective.

Programming Dry Contact Interface Module

For LX-only Mode (Address 001-999), program the unit via the Touch Tablet Graphical User Interface. On the Tablet's Main Screen, select "System Inputs" then select "Dry Contact Modules". Make selections as necessary to program the LXDCIM name (if desired) and I/O Port functions. Verify system functionality by using the Tablet's "View DC Module State" feature and actuating the switch input(s) as necessary.

For LonMark Mode (Address 000), a Dry Contact Interface Module plug-in is available from Hubbell Building Automation, Inc. at www.hubbell-automation.com.

Resetting Dry Contact Interface Module

If needed, the LXDCIM can be reset to an unconfigured state or to factory default settings (except network address) by pressing and holding the Service Button located on the unit's faceplate. For LX-only Mode (Address 001-999), hold the Service Button for three seconds to reset configuration data to factory defaults. For LonMark Mode (Address 000), hold the Service Button for 20 seconds to put the unit into an unconfigured state. When reset, the unit's programmed data (name and I/O Port functionality) is erased and the unit must be reprogrammed.

To Install Unit: Hook upper catch (A) on DIN rail and gently push against DIN rail until lower catch (B) snaps on to DIN rail.

To Remove Unit: For "Top-hat" DIN rails, gently exert downward force on catch release © while pulling lower edge of unit away from DIN rail. Repeat for second bracket then lift unit from upper edge of DIN rail. For "C" rail type DIN rail, gently lift entire unit upward while pulling lower edge of unit away from lower catch (B). When lower catches release, pull unit down and away from upper catch (A).

Figure 2:
Installation Diagram

