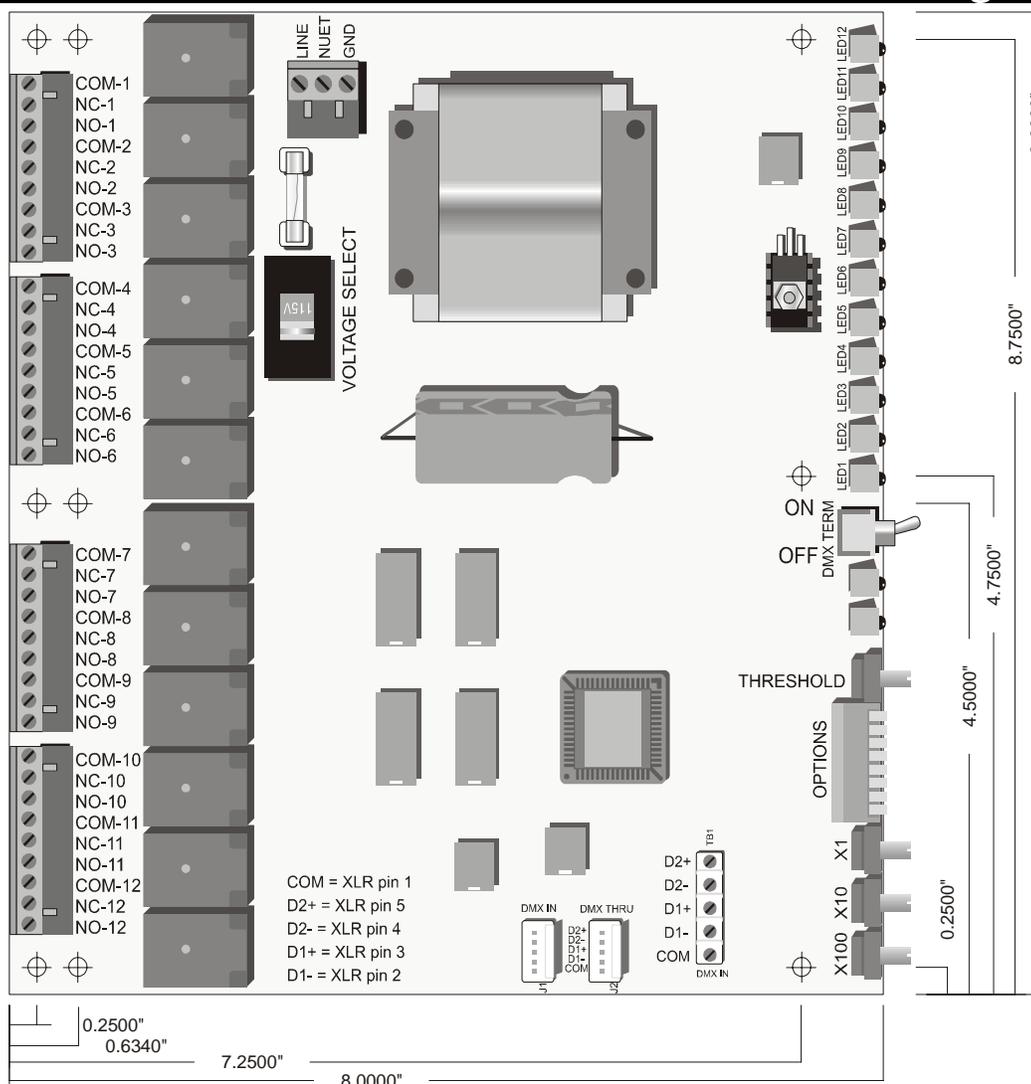


# LCCC12 DMX Contactor

# Configuration



## Connections

**Power:** With power off, connect power leads to LINE, NEUTRAL and GROUND screw terminals. Ensure that VOLTAGE SELECT switch is set correctly for supply voltage before applying power.

**Input:** DMX input lines are connected to TB1 or J1. J1 and TB1 match the standard DMX512 pin layout. For J1 use an AMP 640440-5 or equivalent connector.

**Pass-thru:** If required, direct DMX signal pass-thru can be connected to J2 using .100 in. header, AMP 640440-5 or equivalent.

**Output:** Both normally closed and normally open contacts are provided for each output. For signal switching, connect one line to COM and the other to either NO or NC depending on the type of closure required. For power switching, connect the supply to COM and the load to NO. All contacts are isolated from each other.

## Address

Set the DMX address of the relays by setting the X100, X10, and X1 rotary switches to the desired number of the first relay. This can be any number from 1 to 512. The rest of the relays on the card will increment from that number.

## DMX Termination

Switch the termination switch ON if there are no other DMX devices connected to the DMX THRU connector or the DMX IN terminal strip.

## Momentary or Maintained

Some devices require a continuously *maintained* signal or supply. Others require only a *momentary* or pulsed signal. You can choose the desired output type by setting the the Options DIP switch. Setting switch 1 OFF results in all relays responding with a *maintained* contact closure when addressed. Setting switch 1 ON results in all relays responding with a *momentary* contact closure. The duration of the momentary closure can be selected with DIP switch 7. For a 250msec closure, set switch 7 OFF. For a longer momentary closure of 500 msec, set switch 7 ON.

## Threshold

The relay operating threshold can be set from 10% (position 1 on the threshold dial) to 100% (position 0). The relay will turn on at threshold +2% and turn off at threshold -2%.

## Dual Action Momentary Mode

A dual action momentary mode is available for use with motors, screen and blind controls. These are situations that require Up and Down, or Open and Close types of commands. In dual action mode, the card operates as six *pairs* of momentary relays (1 & 2, 3 & 4, etc.). When the selected channel's level is increasing and passes above threshold, the first relay will close momentarily. When the channel level is decreasing and passes below threshold, the second relay will close momentarily.

## Build Mode

For effects use, this unit can be set to Build Mode. In this case all relays will respond to the single address set on the rotary switches, depending on the DMX level for that channel. The higher the level, the greater the number of relays that will be on.

## DIP Switch Settings

MODE SELECT	1	2	3
All 12 relays maintained action	OFF	OFF	OFF
All 12 relays momentary action	ON	OFF	OFF
Six pairs, alternate action, momentary split	OFF	ON	OFF
Build Mode, one DMX channel	OFF	OFF	ON
X-Mode operation	ON	ON	OFF
Y-Mode operation	ON	OFF	ON
Momentary split c/w independent OFF	OFF	ON	ON
Reserved for future use	ON	ON	ON
<b>ALL ON</b>	<b>5</b>		
Turn all relays on	ON		
<b>STATUS QUO</b>	<b>6</b>		
Five minute hold after loss of DMX signal	ON		
Relays turn OFF 2 seconds after loss of DMX	OFF		
<b>MOMENTARY DURATION</b>	<b>4</b>	<b>7</b>	
250 msec.	OFF	OFF	
500 msec.	OFF	ON	
2.5 sec.	ON	OFF	
<b>TEST MODE</b>	<b>8</b>		
Each relay turned on when its address (1-12) is dialed up on address switches	ON		

## Installation Notes

It is recommended that this device be mounted in a secure electrical enclosure.

The device should be mounted using minimum 1/2" high 6-32 standoffs.

Do not exceed the maximum contact ratings.

**Pathway Connectivity shall not be held responsible for any injury or damage due to unsafe installation or operation of this product.**

## SPECIFICATIONS

**Power Supply:** 115/230VAC, 50/60Hz, switch selectable

**Input Signal:** USITT DMX512

**Outputs:** 12 normally open or normally closed, isolated contacts

**Contact Rating:** 5A at 30VDC  
5A at 125VAC  
3A at 277VAC

**Exceeding these ratings may result in personal injury or damage to this and other connected devices.**

### Connections:

**Power & Relay:** Two piece compression screw terminals

**DMX in & thru:** AMP MTA100 5-pin headers & screw terminals

**Size:** 9.0" x 8.0" (203mm x 229mm)

## Support

Technical support is available from Pathway Connectivity at (403) 243-8110, Monday to Friday, from 9 a.m. to 5 p.m. Mountain time. Please have the unit model number and serial number ready when you call.

## Warranty

The Gray DMX Contactor is covered by a one year warranty against defective parts and labor. If you need to return anything for any reason, contact the factory in advance for return instructions.



Pathway Connectivity Inc., 480C - 36 Avenue S.E.,  
Calgary, AB, T2G 1W4 Canada  
tel (403) 243-8110 fax (403) 287-1281

support@pathwayconnect.com  
www.pathwayconnect.com

