

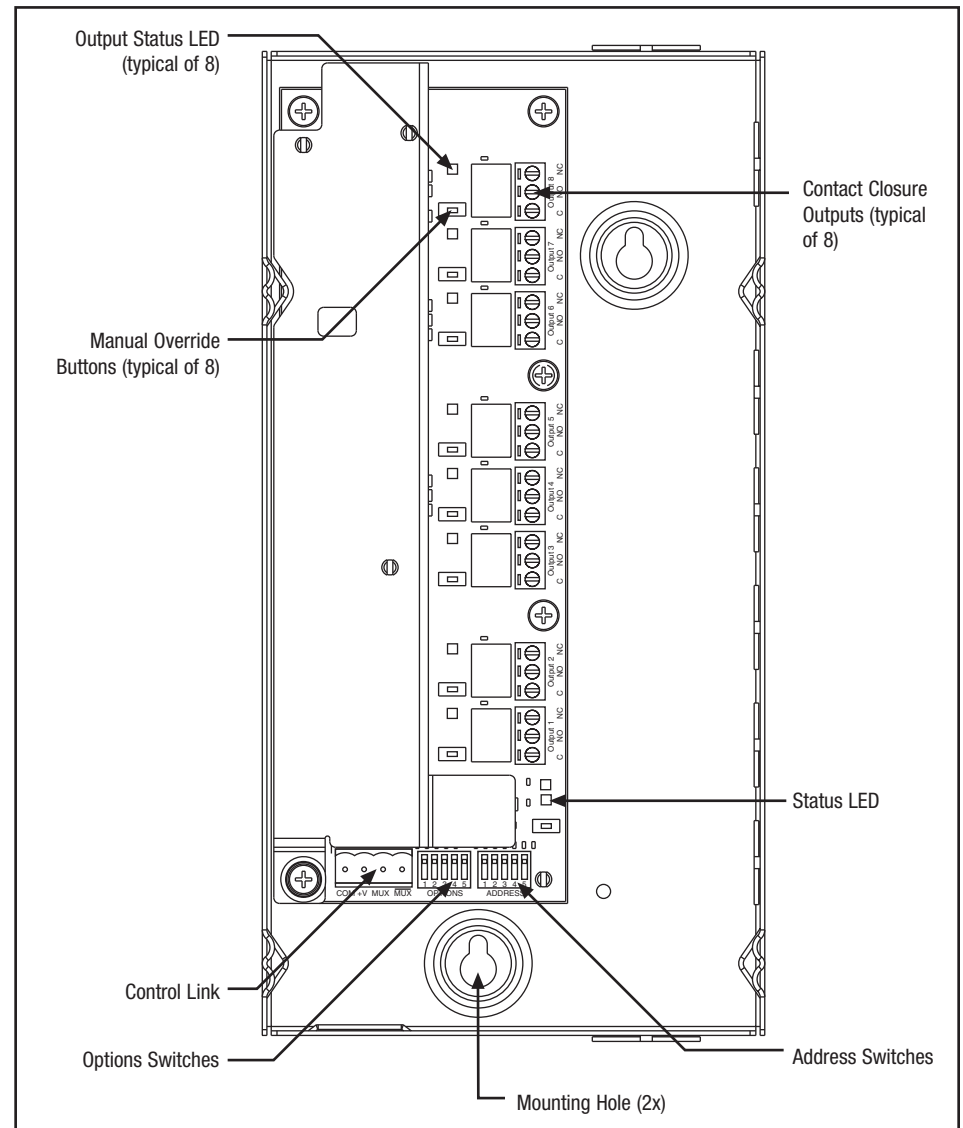
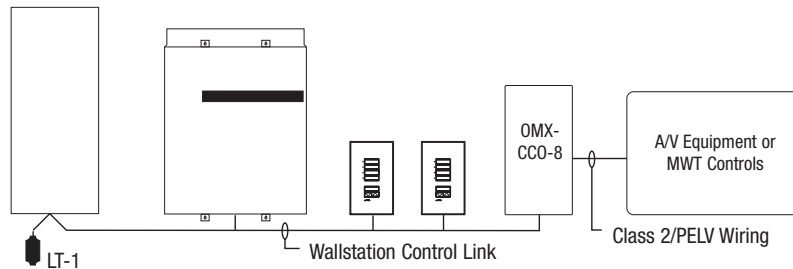
Description

The OMX-CCO-8 provides eight dry contact closure outputs that integrate the control of customer-supplied audio/visual equipment to the Lutron Lighting Control System. In addition, the OMX-CCO-8 can control Motorized Window Treatment (MWT) controllers that accept dry contact closures as inputs. The OMX-CCO-8 is for use with *GRAFIK 5000™*, *GRAFIK 6000®*, and *GRAFIK 7000™* Lighting Control Systems.

Features

- The OMX-CCO-8 provides both normally open (NO) and normally closed (NC) contacts.
- The OMX-CCO-8 may be set to momentary or maintained outputs.
- The outputs may be set as individual outputs or MWT channels.
- Outputs set as MWT channels may be set to have OPEN and CLOSE outputs or OPEN, STOP, and CLOSE outputs.
- Manual override buttons allow for testing the system wiring.

System Diagram



Output Ratings

Supply Voltage

0-30 V
30-42 V

Resistive Load

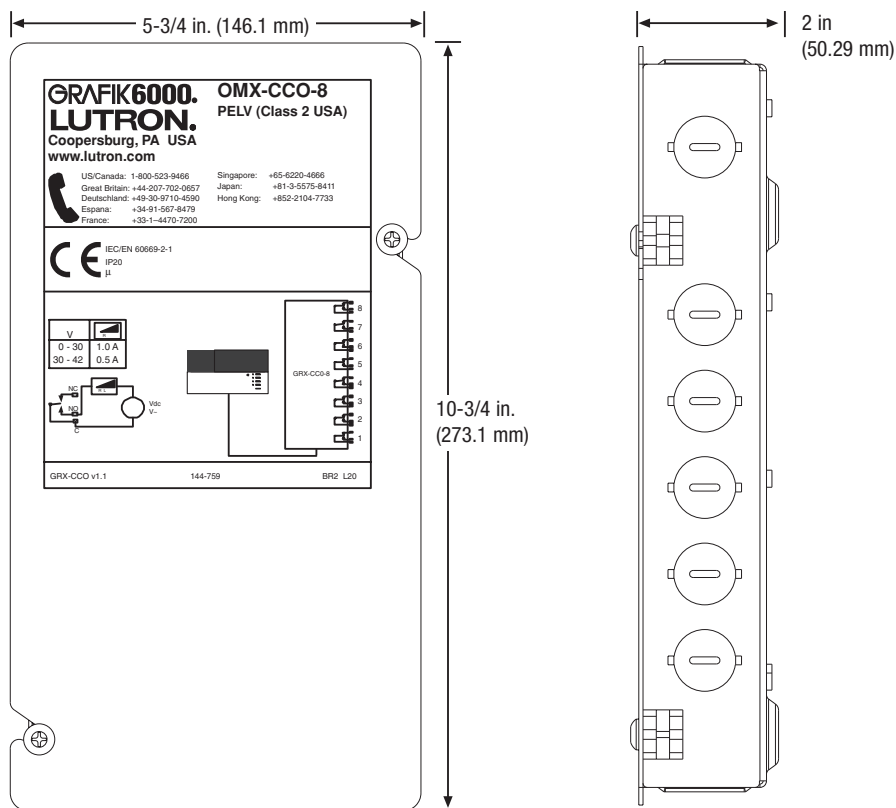
1.0 A
0.5 A

Installation

Mounting

- Lutron recommends that the OMX-CCO-8 be installed by a qualified electrician.
 - The environment where the OMX-CCO-8 is placed must have an ambient temperature range of 32—104 °F (0—40 °C).
 - Humidity less than 90%, noncondensing.
 - Mount the enclosure on clean, dry surface.
 - Mounting method must be able to support weight and forces applied during installation.
 - Mount the OMX-CCO-8 no further away than the maximum wire length specified by the AV equipment or MWT controller, if applicable.
1. Remove the top cover by loosening the two screws.
 2. Mark two holes in the mounting surface using the OMX-CCO-8 as a template.
 3. Drill the holes.
 4. Mount the OMX-CCO-8 using 2 #8 screws (not supplied)

OMX-CCO-8 (shown with cover attached)



Wiring

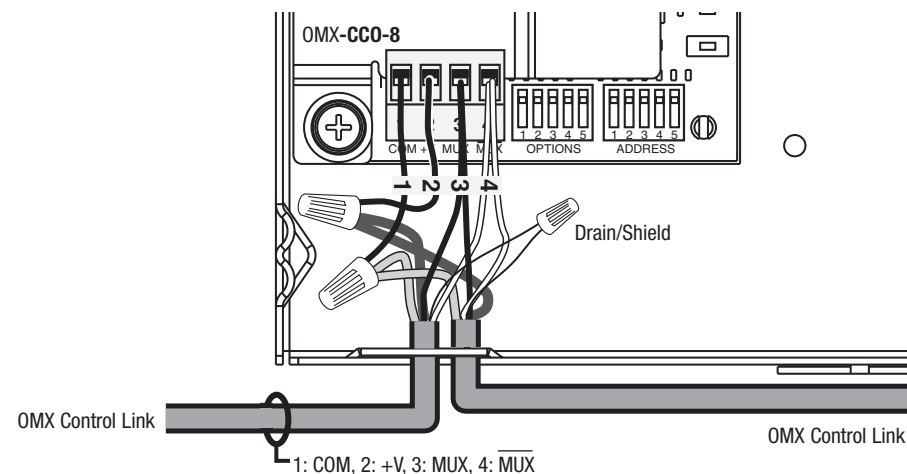


Danger! Always turn Off the circuit breaker or remove the main fuse from the power line before doing any work. Failure to do so can result in serious personal injury.

- Do not connect line/mains voltage power to low-voltage terminals. Improper wiring can result in personal injury or damage to the control or to other equipment.
- Refer to the Processor Panel Installation Guide and/or *Lutron* job drawings for power cable and data cable (OMX Control Link) wiring specifications.
- The OMX-CCO-8 must be connected to the Lutron Lighting Control System by using Class 2/PELV wiring methods per the *National Electrical Code*®. Check with your local electrical inspector for the local code requirements and wiring practices allowed in your area.

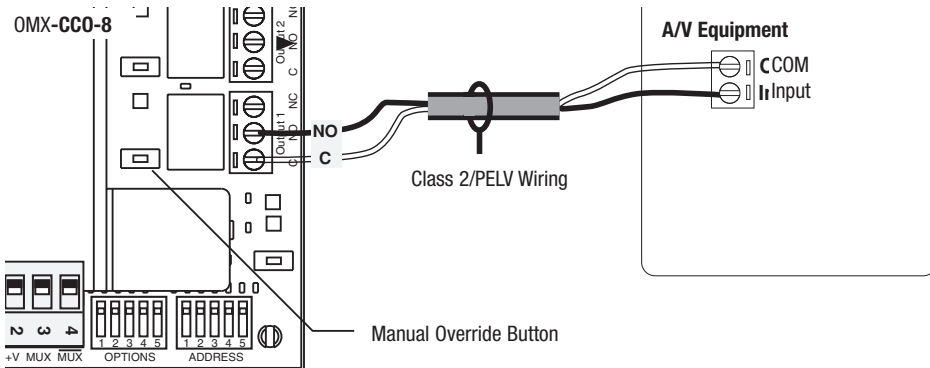
OMX Control Link - OMX-CCO-8 to OMX Control Unit

1. Turn power Off.
2. Strip insulation from wires so that 3/8 in. (10 mm) of bare wire is exposed for #18 AWG (1.0 mm²) wire.
3. Wiring must be done in a daisy-chain configuration (please see Installer's Guide included with OMX Control Unit for more information).
Connect one twisted pair of wires (two #18 AWG [1.0 mm²]) to terminals 3 and 4 of the OMX-CCO-8's terminal block. For terminals 1 and 2, the use of #12 AWG (2.5 mm²) is required. Refer to the diagram below for proper wiring.
4. Restore power.



Contact Closure Outputs - OMX-CCO-8 to A/V Equipment

1. Refer to the A/V equipment installation guide to determine which contact to wire, normally open (NO) or normally closed (NC). The diagram below shows wiring with normally open contacts.
2. The OMX-CCO-8 terminal blocks will accept #16–#22 AWG wire. Use the appropriate wire gauge for your application. Connect the OMX-CCO-8 and the A/V Equipment as shown in the diagram below.
3. After wiring, use the manual override buttons to verify proper system operation. Press the button associated with the desired output to close the relay. The manual override buttons operate the OMX-CCO-8 according to how the OPTIONS switches are set (see *Set Operation of MWT Channel(s) or Individual Outputs*).
4. Replace the cover when wiring is complete.



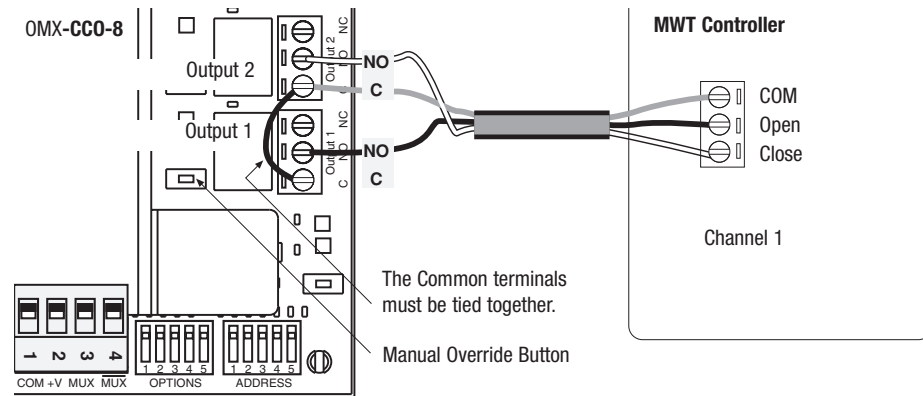
Contact Closure Outputs - OMX-CCO-8 to MWT Controllers

Note: The number of MWT channels and the number of outputs per MWT channel must be set. This will affect how the OMX-CCO-8 is wired. Refer to *Set Options* for more information.

1. Refer to the manufacturer's MWT Controller installation guide to determine which contacts to wire, normally open (NO) or normally closed (NC). The diagram at right shows wiring with normally open (NO) contacts.
2. The OMX-CCO-8 terminal blocks will accept #16–#22 AWG wire. Use the appropriate wire gauge for your application. Connect the OMX-CCO-8 and the MWT Controllers as shown in the diagram at right. This diagram shows an MWT with two relays per channel.

Note: The Common terminals must be tied together as shown.

3. After wiring, use the manual override buttons to verify proper system operation. Press the button associated with the desired output to close the relay. The manual override buttons operate the OMX-CCO-8 according to how the OPTIONS switches are set (see *Set Options - Zone Control*).
4. Replace the cover when wiring is complete.



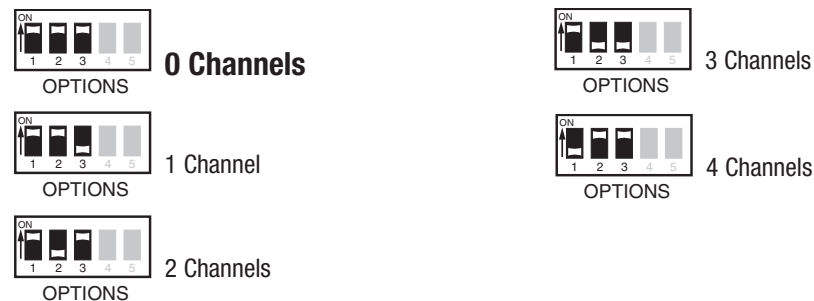
Set Options

Warning! When controlling MWTs, the GRX-CCO-8 can be set up to have both OPEN and CLOSE outputs closed simultaneously. Some MWT controllers cannot have both OPEN and CLOSE inputs closed simultaneously, as this will damage the motor. Refer to your MWT controller's installation guide to make certain that the GRX-CCO-8 is set up properly for your MWT controller.

Set Number of MWT Channels

The number of MWT channels may be set from 0 to 4. If the OMX-CCO-8 will not be controlling any MWTs, set the number of channels to 0.





Set the number of channels using switches 1, 2, and 3 on the OPTIONS switch (see diagram below).



Set Operation of MWT Channel(s) or Individual Outputs

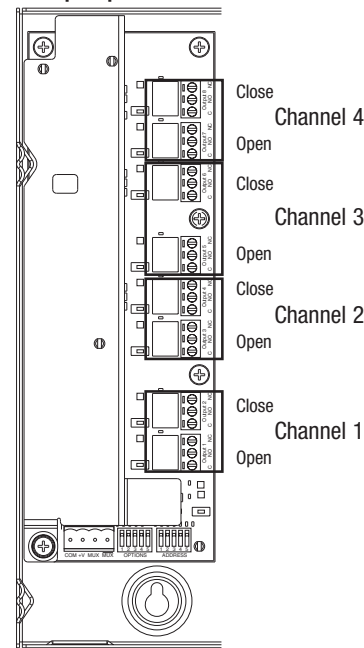
- Set the OPTIONS switches to select the operating mode that is appropriate for your application.
- The outputs may be set to either all momentary or all maintained (MWT channels only).
- The MWT channel(s) may be set to have Open and Close outputs, or Open, Stop and Close outputs. Refer to the manufacturer's MWT Controller Installation Guide to determine how many outputs per MWT channel are appropriate.
- Set the appropriate Stop function. Refer to the manufacturer's MWT Controller Installation Guide.
- Outputs not used as MWT channels may be controlled as individual outputs (e.g., if the OMX-CCO-8 is set to have 2 channels of MWT controllers, and each channel has 2 outputs, then there will be 4 outputs left over to act as individual outputs).

Note: If channels are configured to have three outputs per MWT channel, then the maximum number of MWT channels is two.

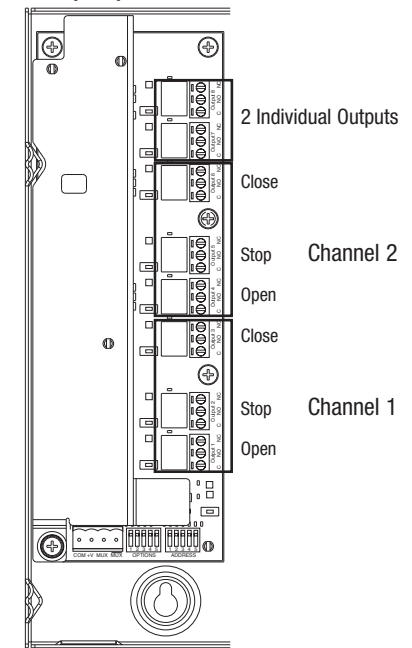
				
	OPTIONS	OPTIONS	OPTIONS	OPTIONS
Output configuration for MWTs	Open Close	Open Close	Open Close	Open Stop Close
Output Type	Maintained	Momentary	Momentary	Momentary
Stop Function	Both outputs opened	Open and Close pulsed simultaneously*	Most recent output pulsed	Dedicated Stop output pulsed

* Please refer to **Warning** at the beginning of *Set Options* section.

2 Outputs per Channel



3 Outputs per Channel



Set OMX-CCO-8 Address

The OMX-CCO-8 requires one of 32 unique Wallstation addresses to operate properly. This is accomplished by setting the Address Switches appropriately (please refer to the Processor Panel installation instructions for more information). Refer to Lutron job drawings for any preassigned, job-specific address for each OMX-CCO-8.

LIMITED WARRANTY

Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within one year after purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid.

This warranty is in lieu of all other express warranties, and the implied warranty of merchantability is limited to one year from purchase. This warranty does not cover the cost of installation, removal or reinstallation, or damage resulting from misuse, abuse, or improper or incorrect repair, or damage from improper wiring or installation. This warranty does not cover incidental or consequential damages. Lutron's liability on any claim for damages arising out of or in connection with the manufacture, sale, installation, delivery, or use of the unit shall never exceed the purchase price of the unit.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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