- Allows Centralized Lighting Control System to integrate with other manufacturers’ equipment
- Connect through:
  - Contact closures
  - RS-232 commands
  - DMX512 control protocol
  - 0-10V or current-driven photocells

**Centralized Lighting Control System Map**
- Use the map at right to identify system component being reviewed in each section
- For overall wiring information, see pg. 90

**Specifications**
- Wire specification and maximums for Control Station Devices (CSD) Link:
  - Wire: (2) #12 AWG (2.5mm²) and (1) twisted shielded pair #18 AWG (1.0mm²)
  - For Lutron cable, see pg. 129
  - Distance: 2,000’ (610m); 8,000’ (2400m) with use of three MX-RPTR, see pg. 101
  - Installation: Daisy chain (no home-run wiring)
- Power:
  - 33VDC (from Centralized Lighting Control System Processor)
- Configuration:
  - Through DesignIT™ software

Stanards listed below apply to one or more products in the Lutron product line. Consult factory for specific information.

Lutron Quality Systems registered to ISO 9001
## Centralized Lighting Control System

### Control Interfaces

<table>
<thead>
<tr>
<th>Features/Functions</th>
<th>Contact Closures</th>
<th>Serial Links</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMX-AV pg.124</td>
<td>OMX-CCO-8 pg.124</td>
<td>OMX-RS232 pg.124</td>
</tr>
</tbody>
</table>

### Features/Functions

#### Preset Scene Control
- **Select Scene**: yes
- **Scene Status Feedback**: yes

#### Security/Life Safety
- **Initiate a programmed “Panic-on” mode through contact closure input**: yes

#### Occupant Response
- **Lighting control based on occupancy**: yes

#### Sequencing
- **Initiate a sequence loop**: yes

#### Lockout
- **Zone Lock – Prevent intensity changes on selected zones**: yes
- **Scene Lock – Disable scene selection within a space**: yes

#### Partition Control
- **Set Partition Status**: yes
- **Partition Status Feedback**: yes

#### Scheduling
- **External Timeclock – Scene selection through contact closure inputs**: yes

#### Zone Control
- **Independent zone raise/lower**: yes
- **Set zone intensity**: yes
- **Zone on/off status feedback**: yes
- **Zone intensity feedback**: yes

#### Window Treatments
- **Open/Close**: yes
- **Open/Close/Stop**: yes

#### Open Collector (NPN) Output
- **Open Collector (NPN) Output**: yes

#### Dry Contact Closure
- **Dry Contact Closure**: yes

#### RS-232 Integration

---

1. Status is returned upon request.

---

Footnotes, pg. 123
Centralized Lighting Control System  Control Interfaces

**CONTACT CLOSURES /RS-232**

**Dimensions**
- W: 5.00" (127mm)
- H: 7.75" (197mm)
- D: 2.50" (64mm)

Mounts on a 4.00" square utility box

**CONTACT CLOSURE INTERFACE**  OMX-AV

- Provides two-way interface between Controls and Centralized Lighting Control System
- Typical functions (configured through software):
  - Select scenes
  - Raise/lower zones or groups of zones
  - Open and close partitions
  - Enable and disable Wallstations
  - Start and stop sequences
  - Enable and disable panic functions and security modes
- Five inputs and five outputs
- Inputs and outputs can be momentary or maintained
- Output requires external relay and power supply (30VDC maximum) by others for contact closure
- Inputs specification:
  - Input must be dry contact closure or open collector (NPN) with:
    - On-state saturation voltage less than 2.0VDC
    - Off-state leakage current less than 10 mA
    - Open circuit voltage 36V maximum
    - Short circuit current 4.0 mA maximum
- Outputs specification:
  - 38V maximum
  - 200 mA maximum
  - Open collector (NPN) output
  - On-state saturation voltage 1.0V maximum
  - Off-state leakage current 0.1 mA maximum
- Works with occupancy sensors, pg. 127
- Works with infrared partition switch, pg. 125
- For more information, see application note, pg. 70

**CONTACT CLOSURE OUTPUT**  OMX-CCO-8

- Provides eight dry contact closure outputs
- For integration to 3rd party controllable window treatments or A/V equipment
- May be set to normally open (NO) or normally closed (NC)
- May be set to momentary or maintained contacts
- Depending on configuration the outputs indicate:
  - Current scene (1-8, 9-16)
  - Zone on/off for eight zones
  - Open/close window treatments (4 shades)
  - Open/close/stop window treatments (2 shades)
- Output ratings: 0-30V, 10A and 30-42V, 0.5A

**RS-232 INTERFACE**  OMX-RS232

- Integrates Centralized Lighting Control System with user-supplied PC or digital A/V equipment (touch screen) using RS-232 serial communication
- Enables digital control of scene selection, scene lock, sequencing, zone lock, and zone raise/lower
- Can provide status monitoring through button feedback and scene-status updates
- Must be located within 50’ (15m) of RS-232 source

Footnotes, pg. 124

1 Class 2/PELV control wiring
2 Counts as one of 32 maximum Control Station Devices on CSD link.
### Centralized Lighting Control System

#### Control Interfaces

<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
<th>Ordering Example</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INFRARED PARTITION SENSOR</strong></td>
<td>GRX-IRPS-WH</td>
<td>SO-4PS-CF-WH</td>
</tr>
<tr>
<td>Infrared sensor provides contact closure based on status of sensor</td>
<td></td>
<td>For choices see:</td>
</tr>
<tr>
<td>Can be used with GRX-AV (GRAFIK Eye® 3000/4000 Series), pg. 58</td>
<td></td>
<td><a href="http://www.lutron.com/seetouch">www.lutron.com/seetouch</a></td>
</tr>
<tr>
<td>or OMX-AV (Centralized Lighting Control System Series), pg. 124</td>
<td></td>
<td>add color/finish suffix</td>
</tr>
<tr>
<td>for partitioning; GRX-AV or OMX-AV ordered separately</td>
<td></td>
<td>to model #</td>
</tr>
<tr>
<td>Includes transmitter and receiver; (2 units as shown)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Requires GRX-12VDC for power (see pg. 64)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmitter and receiver are white</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fits in standard single gang backbox, mounted front side down, on</td>
<td></td>
<td></td>
</tr>
<tr>
<td>either side of partition wall, near ceiling surface</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consult factory for additional details when being used with Switch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>input Control PIN—NTGRX-SIAS-IR, pg. 48</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PARTITION STATUS WALLSTATION**

**seeTouch**

- Provides four buttons to reflect partition status for up to four movable walls
- Map custom engraved to match your floorplan
- Partition status wallstations are available with control for 2-12 movable walls, contact Lutron customer service for more information

**Architectural**

- Provides four buttons to reflect partition status for up to four movable walls
- Map custom engraved to match your floorplan
- Partition status wallstations are available with control for 2-12 movable walls, contact Lutron customer service for more information

<table>
<thead>
<tr>
<th>For Example:</th>
<th>Toggles the status of...</th>
<th>To combine Control Units:</th>
</tr>
</thead>
<tbody>
<tr>
<td>This button</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Button 1</td>
<td>Wall A</td>
<td>1 and 2</td>
</tr>
<tr>
<td>Button 2</td>
<td>Wall B</td>
<td>2 and 3</td>
</tr>
<tr>
<td>Button 3</td>
<td>Wall C</td>
<td>3 and 4</td>
</tr>
<tr>
<td>Button 4</td>
<td>Wall D</td>
<td>4 and 5</td>
</tr>
</tbody>
</table>

**ROOM ASSIGNOR CONTROL PANEL**

OMX-RACP

- Contact Closure Input interface to Centralized Lighting Control System
- Provides up to 32 inputs
- Typically used for visual partition status with large rooms, but can be configured to perform any function of the OMX-AV

**Footnotes, pg. 125**

1. Depth includes wallplate and backbox. Wallplate depth is 0.31” (8mm).
2. Depth includes wallplate and backbox. Wallplate depth is 0.35” (9mm).
3. Depth includes wallplate and backbox. Wallplate depth is 0.38” (10mm).
4. Class 2/PELV control wiring
5. Counts as one of 32 maximum Control Station Devices on CSD link.

**Dimensions**

**PARTITIONING**

- W: 6.32” (161mm)
- H: 4.56” (116mm)
- D: 1.13” (29mm)

Wallbox Size: single-gang

**INFRARED PARTITION SENSOR**

- Infrared sensor provides contact closure based on status of sensor
- Can be used with GRX-AV (GRAFIK Eye® 3000/4000 Series), pg. 58 or OMX-AV (Centralized Lighting Control System Series), pg. 124 for partitioning; GRX-AV or OMX-AV ordered separately
- Includes transmitter and receiver; (2 units as shown)
- Requires GRX-12VDC for power (see pg. 64)
- Transmitter and receiver are white
- Fits in standard single gang backbox, mounted front side down, on either side of partition wall, near ceiling surface
- Consult factory for additional details when being used with Switch input Control PIN—NTGRX-SIAS-IR, pg. 48

**PARTITION STATUS WALLSTATION**

- Provides four buttons to reflect partition status for up to four movable walls
- Map custom engraved to match your floorplan
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**Footnotes, pg. 125**

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3. Depth includes wallplate and backbox. Wallplate depth is 0.38” (10mm).
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- Consult factory for additional details when being used with Switch input Control PIN—NTGRX-SIAS-IR, pg. 48

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**ROOM ASSIGNOR CONTROL PANEL**

OMX-RACP

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- Provides up to 32 inputs
- Typically used for visual partition status with large rooms, but can be configured to perform any function of the OMX-AV

**Footnotes, pg. 125**

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2. Depth includes wallplate and backbox. Wallplate depth is 0.35” (9mm).
3. Depth includes wallplate and backbox. Wallplate depth is 0.38” (10mm).
4. Class 2/PELV control wiring
5. Counts as one of 32 maximum Control Station Devices on CSD link.
**DAYLIGHTING CONTROL**

**OMX-DACPI-2, 3**

- Typically selects preset scenes in response to ambient daylight
- Enforce option assures Photosensor overrides manual control for energy savings
- Use up to three Lutron® Photosensors (MW-PS-WH) in parallel or one 0-10V Photosensor by others

**NOTE:** Photosensors ordered separately (see below)

- Class 2/PELV control wiring
- Counts as one of 32 maximum Control Station Devices on CSD link

**PHOTOSENSOR LOCATION FOR NARROW AREAS**

- Notch towards window
- Effective Window Height: \( H \)
- Width of Room: \( W \)

**PHOTOSENSOR LOCATION FOR AVERAGE SIZE AREA**

- Notch towards window
- Effective Window Height: \( H \)
- Width of Room: \( W \)

**PHOTOSENSOR LOCATION FOR AVERAGE SIZE AREA**

- Notch away from window

**Photosensors:**

- The notch on the Photosensor defines the viewing direction
- Place Photosensor so its viewing area does not extend out of the window
- Do not position the Photosensor in the well of a skylight or above indirect fixtures
- Ensure the view of the Photosensor is not obstructed

**Mounting Consideration**

- Do not position Photosensor above indirect fixtures

---

**ORDERING EXAMPLE**

- **OMX-DACPI-A-UW**
- **MW-PS-WH**

**COVER OPTIONS**

- **Opaque A**
- **Translucent Black T**
- Black translucent cover with base color from below

**BASE COLORS**

- **Matte Finishes**
  - Standard, ships in 48 hrs.
  - Matte Cover Options: A or T
  - See pg. 10 for complete color offering and suffixes.

- **Gloss (NEMA) Finishes**
  - Ships in 4-6 weeks.
  - Gloss Cover Option: A only
  - See pg. 10 for complete color offering and suffixes.

- **Metal Finishes**
  - Ships in 4-6 weeks.
  - Metal Cover Option: T only
  - See pg. 10 for complete color offering and suffixes.

- **Satin Finishes**
  - Ships in 4-6 weeks.
  - Satin Cover Option: A or T
  - See pg. 10 for complete color offering and suffixes.

**Customization**

- Ships in 4-6 weeks.
  - See pg. 12 for multigang wallplates, color matching, engraving/silk screening, and custom controls.
  - See pg. 143 for engraving schedules.

**Locking Covers**

- See pg. 129 for more information.

---

**DIMENSIONS**

- **Diameter:** 2.59” (66mm)
- **Depth:** 2.16” (55mm)
- **Ceiling mounted; 2” (50mm) diameter hole for bracket (Lutron-supplied)**
Centralized Lighting Control System  Control Interfaces

**OCCUPANCY**

**Dimensions**
- **W:** 6.12" (156mm)
- **H:** 1.62" (41mm)
- **D:** 2.31" (59mm)

Ceiling mounted; 3/4" (19mm) diameter hole for mounting post (Lutron-supplied)

---

**Product**  | **Model**
--- | ---
**microOS– OCCUPANT SENSORS** | 
**One-way** | MOS-CM-15-WH
**Two-way** | MOS-CM2W-15-WH

- Connects to GRX-AV/OMX-AV to automatically select Scene 1 when space becomes occupied and turns off lights when space is unoccupied
- Requires Lutron Power Pack PP-20 to provide power to sensor; up to five sensors can be powered from one power pack
- Detects motion ultrasonically
- Time delay is user-adjustable through software
- Up to five sensors can be powered from one power pack
- Mounting Considerations:
  - The Occupant Sensor must have an unobstructed view of the room.
  - Do not mount behind or near tall cabinets, shelves, indirect hanging light fixtures, etc.
  - Keep the Occupant Sensor away from air flow from ventilation outlets, windows, fans, etc.
  - Partitions higher than 48" (1.2m) reduce the coverage area of the sensor.
  - Partitionable spaces with partitions higher than 71" (1.8m) should be treated as individual rooms.
  - Contact Lutron for more details
  - The sensor can detect major motion (such as a person taking a half step) at a greater distance than it can detect minor motion (such as writing or typing at a desk)
  - Decrease total coverage area by 15% for "soft" rooms (e.g., heavy draperies or heavy carpeting)

---

**ONE-WAY MOUNTING CONSIDERATIONS**
- Detects motion in one direction
- Sensor should mount on ceiling against wall where doorway is located and not face openings into hallways
- Maximum coverage area 900 sq. ft. (84 sq.m)

---

**TWO-WAY MOUNTING CONSIDERATIONS**
- Detects motion in two directions
- Sensor should mount in the center of space and not face openings into hallways
- Maximum coverage area 2160 sq. ft. (200 sq.m)

---

**LUTRON POWER PACK**  | **PP-20**
--- | ---
- Powers up to 5 microOS Occupant Sensors
## Centralized Lighting Control System

### Control Interfaces

#### Theatrical

**Dimensions**
- W: 5.00" (127mm)
- H: 7.75" (197mm)
- D: 2.50" (64mm)

Mounts on a 4.00"-square utility box.

#### Multi-Channel Theatrical Consoles

<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMX512 Interface</td>
<td>LUT-DMX</td>
</tr>
<tr>
<td>• Converts Centralized Lighting Control System intensities to DMX512 output</td>
<td></td>
</tr>
<tr>
<td>• Use to control:</td>
<td></td>
</tr>
<tr>
<td>- Fiber optic lighting</td>
<td></td>
</tr>
<tr>
<td>- LED-based lamps</td>
<td></td>
</tr>
<tr>
<td>- Strobe lights</td>
<td></td>
</tr>
<tr>
<td>- Fogger machines</td>
<td></td>
</tr>
<tr>
<td>- Moving fixtures</td>
<td></td>
</tr>
<tr>
<td>- Animated characters</td>
<td></td>
</tr>
<tr>
<td>• DMX send (output DMX intensities) only</td>
<td></td>
</tr>
<tr>
<td>• Receive DMX using 2Link—Option in Power Panels, pg. 151</td>
<td></td>
</tr>
</tbody>
</table>

#### 2Link

The 2Link option provides two distinct control links inside each Power Panel. Each link—Link A and Link B—is capable of operating on any one of four systems—Lutron’s GRAFIK Eye® 4000, Lutron’s Centralized Lighting Control System, or USITT DMX512 protocol. Each system or protocol is unique, but the Power Panel is designed to automatically detect which one is present and operate accordingly.

When ordering the appropriate panel, ask for the 2Link option.

#### Theatrical Receptacles

- Receptacle provides standard pinout for DMX512 theatrical protocol
- Class 2/PELV device; barriers must be provided when line-voltage and Class 2 controls are ganged together in the same wallbox
- DMX cable available from Lutron (P/N GRX-CBL-DMX)
- See pg. 130 for colors/finishes

**Stageboard Receptacle**
- Five pin XLR style male jack for connection to a theatrical stage board

**Fixture Equipment Receptacle**
- Five pin XLR style female jack for connecting LUT-DMX to a theatrical fixture equipment

---

**Footnotes, pg. 128**

1. Depth includes wallplate and backbox. Wallplate depth is 0.35" (9mm).
2. Class 2/PELV control wiring
### Product Model

<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LOCKABLE COVERS</strong></td>
<td></td>
</tr>
<tr>
<td>Single-gang</td>
<td>GRX-1GLC</td>
</tr>
<tr>
<td>Two-gang</td>
<td>GRX-2GLC</td>
</tr>
<tr>
<td>Three-gang</td>
<td>GRX-3GLC</td>
</tr>
<tr>
<td>Four-gang</td>
<td>GRX-4GLC</td>
</tr>
</tbody>
</table>

- Prevents tampering with GRAFIK Eye® Control Units or Wallstations
- Permits infrared operation
- Translucent smoked gray
- Cover slides left or right

<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REPLACEMENT COVERS</strong></td>
<td></td>
</tr>
<tr>
<td>Two-gang</td>
<td>GRX-2-GRC-</td>
</tr>
<tr>
<td>Three-gang</td>
<td>GRX-3-GRC-</td>
</tr>
<tr>
<td>Four-gang</td>
<td>GRX-4-GRC-</td>
</tr>
</tbody>
</table>

- See pg. 118 for cover options and base colors.
- For 230V applications, all GRAFIK Eye® 3000 Series Control Units are four-gang

<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LOW-VOLTAGE CABLE</strong></td>
<td></td>
</tr>
<tr>
<td>GRAFIK Eye 4000, Centralized Lighting Control Systems and Digital MicroWAT™.</td>
<td></td>
</tr>
<tr>
<td>250' spool</td>
<td>GRX-CBL-46L-250 (non-plenum)</td>
</tr>
<tr>
<td></td>
<td>GRX-PCBL-46L-250 (plenum)</td>
</tr>
<tr>
<td>500' spool</td>
<td>GRX-CBL-46L-500 (non-plenum)</td>
</tr>
<tr>
<td></td>
<td>GRX-PCBL-46L-500 (plenum)</td>
</tr>
</tbody>
</table>

- Five conductors:
  - #12 AWG (2.5mm²) for power wires;
  - #22 AWG (1.00mm²) for control wires

---

Footnotes, pg. 129

1 For information on cable size and distance, see “Application Note W14” on the Lutron website.
### Centralized Lighting Control System Accessories

**Product** | **Model** | **Color** | **Suffix**
--- | --- | --- | ---
**RECEPTACLES**
15A, 125V
20A, 125V
* Wallplate included

**GFICI RECEPTACLES**
15A, 125V
20A, 125V
* Wallplate included
* GFICI receptacles are only available in white, ivory, gray, brown, and black. Bright chrome, bright brass, and satin brass wallplates are available

**ISOLATED GROUND RECEPTACLES**
15A, 125V
20A, 125V
* Wallplate included
* GFICI Receptacle is orange. Wallplate is the color requested by customer. Isolated Ground Receptacles can be special ordered to match wallplate

**TELEPHONE JACKS**

1. **Single Telephone Jack**
   - 6-conductor jack
   - Accepts most 4- or 6-conductor plugs

2. **Double Telephone Jack**
   - 8-conductor jacks, category 5
   - Not shown

3. **Triple Telephone Jack**
   - 8-conductor jacks, category 5

**CABLE JACKS**

1. **Cable TV Jack**
   - F style, 75-Ohm coaxial cable

2. **Telephone/Cable TV Jack**
   - 8-conductor jacks, category 5 with F-style, 75-Ohm coaxial cable

### Ordering Example

1. **NTR-15-WH**
   - add color/finish suffix to model #

### Matte Finishes

**Standard, ships in 48 hrs.**
- White WH
- Ivory IV
- Beige BE
- Gray GR
- Brown BR
- Black BL

### Metal Finishes

**Ships in 4-6 weeks.**
- Bright Brass BB
- Bright Chrome BC
- Bright Nickel BN
- Satin Brass SB
- Satin Chrome SC
- Satin Nickel SN
- Antique Brass QB
- Antique Bronze QZ

**Anodized Aluminum**
- Clear CLA
- Black BLA
- Brass BRA

### Customization

**Ships in 4-6 weeks.**
- See pg. 12 for multi-gang wallplates, color matching, engraving/silk screening, and custom controls.
- See pg. 143 for engraving schedules.

---

**Footnotes, pg. 130**
1. No derating required if ganged.
2. A physical barrier (partition) must exist when ganging with 120V products.
3. Trim is white around white, ivory, and beige Telephone Jacks. Trim is black around gray, brown, and black Telephone Jacks. Trim is black around custom and special metals.
### Centralized Lighting Control System

#### Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
<th>Color</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SIX-PORT FRAME JACK</strong></td>
<td>NT-6PF-</td>
<td>Matte Finishes:</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td>• Field customizable, multi-port frame offering</td>
<td></td>
<td>Standard, ships in 48 hrs.</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td>• Six ports (matching blanks provided in frame)</td>
<td></td>
<td>White WH</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td>• Multiple connector types available</td>
<td></td>
<td>Ivory IV</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td>(Phone, Cable, Fiber, BNC)</td>
<td></td>
<td>Beige BE</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td>• Connectors snap to fit into frame</td>
<td></td>
<td>Gray GR</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td>• Frame fits faceplates with a Designer opening</td>
<td></td>
<td>Brown BR</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td>• Can be used in single and multigang applications</td>
<td></td>
<td>Black BL</td>
<td>Matte Finishes:</td>
</tr>
</tbody>
</table>

#### CONNECTORS

<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
<th>Color</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Jack</td>
<td>6-conductor, RJ11, Category 3</td>
<td>CON-1P-C3-WH</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td></td>
<td>8-conductor, RJ45, Category 5e</td>
<td>CON-1P-C5E-WH</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td></td>
<td>8-conductor, RJ45, Category 6</td>
<td>CON-1P-C6-WH</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td>Fiber Jack</td>
<td>MT-RJ feed through</td>
<td>CON-1F-MTRJ-WH</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td>SC simplex</td>
<td></td>
<td>CON-1F-SC-WH</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td>LC non-flush mount</td>
<td></td>
<td>CON-1F-LC-WH</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td>ST style</td>
<td></td>
<td>CON-1F-ST-WH</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td>Cable Jack</td>
<td>F-style, 75-Ohm coaxial cable</td>
<td>CON-1C-WH</td>
<td>Matte Finishes:</td>
</tr>
<tr>
<td>BNC Jack</td>
<td>BNC connector, 50-Ohm</td>
<td>CON-1B-WH</td>
<td>Matte Finishes:</td>
</tr>
</tbody>
</table>

#### Footnotes, pg. 131

1. No derating required if ganged.
2. A physical barrier (partition) must exist when ganging with 120V products.
3. Trim is white around white, ivory, and beige Telephone Jacks. Trim is black around gray, brown, and black Telephone Jacks. Trim is black around custom and special metals.
seeTouch™ Window Treatment Wallstations

- Used to control one or more window treatment zones (Sivoia QED™ and AC Motorized Window Treatments) simultaneously with Sivoia QED Controller, pg. 133 and/or Motor Modules in Power Panels, see pg. 173
- The LEDs next to each button are used during programming and provide feedback when the buttons are pressed during normal operation
- Can be set to control up to 8 groups of Sivoia QED Controllable Window Treatments
  - For each group of Sivoia QED Controllable Window Treatments, a GRAFIK Systems Sivoia QED Controller is needed, see pg. 133
- Large, rounded buttons are easy to use
- User-changeable button and faceplate assemblies make for easy customization
- Optional engraving is angled up to the eye for easy reading
- On-button engraving and backlit buttons improve clarity of control functions in low light conditions
- Standard text and non-standard text engraving available; for more details, please visit the website at www.lutron.com/seeTouch
- Insert versions available for multigang installations. See pg. 136 for more information

Centralized Lighting Control System   Window Treatment Wallstations

seeTouch Window Treatment Wallstation

Specifications

- Wire specification and maximums for Control Station Devices (CSD) Link:
  - Wire: (2) #12 AWG (2.5mm²) and (1) twisted, shielded pair #18 AWG (1.0mm²)
  - For Lutron cable, see pg. 129
  - Distance: 2,000' (610m); 8,000' (2400m) with use of three MX-RPTR
  - Installation: Daisy chain (no home-run wiring)
- Power: 33VDC (from Centralized Lighting Control System Processor)
- Configuration: Through Setup software
- Mounting: Standard US wallbox unless otherwise noted;
  - No derating required when multiganged
- Centralized Lighting Control System Sivoia QED Controller (SO-SVCN) connects to both
  - GRAFIK and Sivoia QED Communication Links
  - to Centralized Lighting Control System: (2) #12 AWG (2.5mm²) and (1) twisted, shielded pair #18 AWG (1.0mm²)
  - to Sivoia QED EDU: (3) #18 AWG (1.0mm²) [24VAC, plus earth ground] and (1) twisted, shielded pair #22 AWG (1.0mm²)
### Centralized Lighting Control System

#### Product: CENTRALIZED LIGHTING CONTROL SYSTEM SIVOIA QED CONTROLLER

<table>
<thead>
<tr>
<th>Color</th>
<th>Suffix</th>
<th>Ordering Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matte Finishes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ships in 48 hrs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>WH</td>
<td>SO-SVCN-WH-EO1</td>
</tr>
<tr>
<td>Ivory</td>
<td>IV</td>
<td>add color/finish and engraving suffix to model #.</td>
</tr>
<tr>
<td>Beige</td>
<td>BE</td>
<td>For choices see: <a href="http://www.lutron.com/seetouch">www.lutron.com/seetouch</a></td>
</tr>
<tr>
<td>Gray</td>
<td>GR</td>
<td>Matte Finishes</td>
</tr>
<tr>
<td>Brown</td>
<td>BR</td>
<td>Ships in 48 hrs.</td>
</tr>
<tr>
<td>Black</td>
<td>BL</td>
<td></td>
</tr>
<tr>
<td>Gloss (NEMA) Finishes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ships in 48 hrs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>GWH</td>
<td>insert models only)</td>
</tr>
<tr>
<td>Light Almond</td>
<td>GLA</td>
<td></td>
</tr>
<tr>
<td>Metal Finishes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ships in 4-6 weeks.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bright Brass</td>
<td>BB</td>
<td></td>
</tr>
<tr>
<td>Bright Chrome</td>
<td>BC</td>
<td></td>
</tr>
<tr>
<td>Bright Nickel</td>
<td>BN</td>
<td></td>
</tr>
<tr>
<td>Satin Brass</td>
<td>SB</td>
<td></td>
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<tr>
<td>Satin Chrome</td>
<td>SC</td>
<td></td>
</tr>
<tr>
<td>Satin Nickel</td>
<td>SN</td>
<td></td>
</tr>
<tr>
<td>Antique Brass</td>
<td>QB</td>
<td></td>
</tr>
<tr>
<td>Antique Bronze</td>
<td>QZ</td>
<td></td>
</tr>
<tr>
<td>Anodized Aluminum</td>
<td>CLA</td>
<td></td>
</tr>
<tr>
<td>Clear</td>
<td>CLA</td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>BLA</td>
<td></td>
</tr>
<tr>
<td>Brass</td>
<td>BRA</td>
<td></td>
</tr>
<tr>
<td>Satin Finishes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ships in 48 hrs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Text Engraving option (EO1) shown</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Footnotes, pg. 133
1. Depth includes wallplate and backbox. Wallplate depth is 0.31” (8mm).
2. Insert version available for multigang installations. For insert version use I in place of last N in Model Number. See pg. 136 for more information.
3. Counts as one of 32 maximum Control Station Devices on CSD link.

---

### Window Treatment Wallstations

#### Ordering Example

SO-SVCN-WH-EO1
add color/finish and engraving suffix to model #.

For choices see: www.lutron.com/seetouch

| Matte Finishes |
| Ships in 48 hrs. |
| White | WH |
| Ivory | IV |
| Beige | BE |
| Gray | GR |
| Brown | BR |
| Black | BL |
| Matte Finishes |
| Ships in 48 hrs. |
| Matte Finishes |
| Ships in 48 hrs. |
| Matte Finishes |
| Ships in 4-6 weeks. |
| Matte Finishes |
| Ships in 4-6 weeks. |
| Standard Text Engraving option (EO1) shown |

#### Customization

| Ships in 4-6 weeks. |
| See pg. 12 for multigang wallplates, color matching, engraving/silk screening, and custom controls. |

#### Locking Covers

| Ships in 4-6 weeks. |
| See pg. 13 for more information. |
### 3-BUTTON WINDOW TREATMENT WALLSTATION

**SO-3WN**

- **Function**: Use with Sivoia QED Controller (SO-SVCN-), pg. 133 or Motor Modules in Power Panels, pg. 173
- **Typical Functions**: Typical functions (configured through software):
  - Pressing the Open button once will cause the window treatments to move to their fully open position. Pressing the Open button again while the window treatments are opening will stop their movement.
  - Pressing the Close button once will cause the window treatments to move to their fully closed position. Pressing the Close button again will stop their movement.
  - Pressing Stop will stop the movement of the window treatments.
  - Standard Text Engraving option (EO1) shown

### Dimensions

- **W**: 2.75” (70mm)
- **H**: 4.56” (116mm)
- **D**: 1.06” (27mm)

Wallbox Size: single-gang

### Ordering Example

**SO-3WN-WH-EO1**
- Add color/finish and engraving suffix to model #.
- For choices see: [www.lutron.com/seetouch](http://www.lutron.com/seetouch)

### Matte Finishes

- **Ships in 48 hrs.**
- White
- Ivory
- Beige
- Gray
- Brown
- Black

### Gloss (NEMA) Finishes

- **Ships in 48 hrs.**
- White
- Light Almond

### Metal Finishes

- **Ships in 4-6 weeks.**
- Bright Brass
- Bright Chrome
- Bright Nickel
- Satin Brass
- Satin Nickel
- Antique Brass
- Antique Bronze
- Anodized Aluminum
- Clear
- Black
- Brass

### Satin Finishes

- **Ships in 48 hrs.**
- For choices see pg. 10 for complete color offering and suffixes.

### Customization

- See pg. 12 for multigang wallplates, color matching, engraving/silk screening, and custom controls.

### Locking Covers

- See pg. 129 for more information.

---

### Footnotes, pg. 134

1. Depth includes wallplate and backbox. Wallplate depth is 0.31” (8mm).
2. Insert version available for multigang installations. For insert version use “I” in place of last “N” in Model Number. See pg. 136 for more information.
3. Counts as one of 32 maximum Control Station Devices on CSD link.
3-BUTTON DUAL WINDOW TREATMENT WALLSTATION

- Use with Sivoia QED Controller (SO-SVCN-), pg. 133
- or Motor Modules in Power Panels, pg. 173
- Used to control one or more window treatment zones simultaneously in Centralized Lighting Control Systems
- Provides control for two separate groups of window treatments from one Wallstation
- Typical functions (configured through software):
  - Pressing the Open button once will cause the window treatments to move to their fully open position.
  - Pressing the Open button again while the window treatments are opening will stop their movement.
  - Pressing the Close button once will cause the window treatments to move to their fully closed position.
  - Pressing the Close button again will stop their movement.
  - Pressing Stop will stop the movement of the window treatments.
- Standard Text Engraving option (EO1) shown

5-BUTTON PRESET SIVOIA QED WALLSTATION WITH RAISE/LOWER

- Use with Sivoia QED Controllable Window Treatments only—no motor modules
- Used to simultaneously control one or more zones of Sivoia QED Controllable Window Treatments from a Centralized Lighting Control System
- Typical functions (configured through software):
  - Pressing the Open button once will cause the window treatments to move to their fully open position.
  - Pressing the Open button again while the window treatments are opening will stop their movement.
  - Pressing the Close button once will cause the window treatments to move to their fully closed position.
  - Pressing the Close button again will stop their movement.
  - Pressing Stop will stop the movement of the window treatments.
  - Raise/Lower buttons open and close the window treatment(s) for the duration of the button press.
- Standard Text Engraving option (EO1) shown

Footnotes, pg. 135
1 Depth includes wallplate and backbox. Wallplate depth is 0.31” (8mm).
2 Insert version available for multigang installations. For insert version use I in place of last N in Model Number. See pg. 136 for more information.
3 Counts as one of 32 maximum Control Station Devices on CSD link.
# How To Build seeTouch Models

## Series

<table>
<thead>
<tr>
<th>SG</th>
<th>2B</th>
<th>N</th>
</tr>
</thead>
</table>

### Example: SG-2BN-WH-E01

1. **Series**
   - **SG**: Three options for GRAFIK Eye® lighting control systems.  
   - **SO**: Includes wallplate adapter, button assembly, wallplate  
   - **SR**: Includes wallplate adapter, button assembly, wallplate

2. **Button Configurations/Features**
   - **2B**: Choose the button configurations and features required.
   - **3000** and **4000 Series**

3. **Non-Insert or Insert**
   - **N**: Use NON-INSERT (N) Models for a clean single-gang look. Use INSERT (I) Models for multigang applications.
   - **I**: Insert for multigang use

### NON-INSERT (N) MODELS

- **2BN**  
- **4BN**  
- **4NRLN**  
- **4SN**  
- **4SIRN**  
- **PRON**  
- **4PSN**  
- **4MN**

### INSERT (I) MODELS

- **2BI**  
- **4BI**  
- **4NRI**  
- **4SI**  
- **4SIRI**  
- **PRON**  
- **4PSI**  
- **4MI**

### TIP!

- Use Button Replacement Kits to:
  - Order Non-Standard Text Engraving
  - Change colors, button configurations, and engraving
  - Change between Insert and Non-Insert

---

Lutron World Headquarters: 1.610.282.3800
Centralized Lighting Control System
seeTouch™ Model Guide

4 Colors/Finishes

- WH

Insert a Color/Finish code into the model number.

Matte

- WH White
- BE Beige
- IV Ivory
- GR Gray
- BR Brown
- BL Black

Gloss

- GWH White
- GLA Light Almond

Metal

- SB Satin Brass
- BB Bright Brass
- BC Bright Chrome
- QB Antique Brass
- QZ Antique Bronze
- SC Satin Chrome
- SN Satin Nickel
- BN Bright Nickel
- CLA Clear
- BLA Black
- BRA Brass

5 Language

E

Standard Text Engraving is available in 13 languages. Insert a language code into the model number.

- Arabic A
- Chinese C
- Danish D
- Dutch N
- English E
- French F
- German G
- Italian I
- Japanese J
- Portuguese, Brazil P
- Portuguese, Europe B
- Spanish, Europe S
- Spanish, Americas L

Note: Language is not required for non-standard text engraving, see right.

6 Engraving Choices

0 1

3 options are available for engraving (see www.lutron.com/seeTouch). Insert an engraving code into the model number.

- GENERAL
- Add GN to model number. Language code is required.

- STANDARD TEXT
- 01 – 99

Available in a number of standard choices. Language code and engraving number is required. For choices, see www.lutron.com/seeTouch.

- NON-STANDARD TEXT (SR ONLY)

Offers customized button engraving to suit particular needs. To order, contact Lutron Customer Service. Add NST to model number. No language code is required.

Multigang Ordering

- CONTROLS: Order Insert (I) models for multigang installations. Contact Lutron for multigang installations using Non-Insert (N) models.

- WALLPLATES: Specify “R3” openings in Lutron NovaT™ multigang FB Series (fins broken only) wallplates. Note: seeTouch button assemblies are NOT provided with multigang wallplates. Use the button assemblies provided with Insert (I) Models or Button Replacement Kits.
## Four schedules to detail a project

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting Load Schedule, pg. 139</td>
<td>Details the connected load and load type for each circuit/zone.</td>
</tr>
</tbody>
</table>
| Lighting Control Schedule, pg. 140 | Details all controls, not just dimmers.  
- This includes 3-way switches, wallstations, multigang faceplates, etc.  
- Typically used for multiroom projects, especially large residential projects |
| Accessory Schedule, pg. 141 | A reference guide for the switches, receptacles, and jacks that aesthetically match the dimmers.  
- Schedule provides room to specify quantity, color and symbol used on plans |
| Engraving Schedule, pg. 143 | Indicates where and what type of engraving is required.  
- A schedule should be filled out for each lighting control or multigang faceplate  
- Engraving is an additional charge; contact Lutron for more information |
## Lighting Load Schedule

<table>
<thead>
<tr>
<th>Room Name</th>
<th>Wall Location</th>
<th>Circuit Number</th>
<th>Zone Number</th>
<th>Zone Description</th>
<th>Fixture Type</th>
<th>Load Type</th>
<th>Number of Fixtures</th>
<th>Load per Fixture</th>
<th>Total Load</th>
<th>Qty</th>
<th>Ballast Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lutron Fluorescent Dimming Ballast, see pg. 236</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Room Name</td>
<td>Wall Location/Position</td>
<td>Zone Description</td>
<td>Wallstation or GRAFIK Eye® Model No.</td>
<td>Button Programming</td>
<td>Button Details</td>
<td>Power Booster Model No.</td>
<td>Wallplate Model No.</td>
<td>Color</td>
<td>Engrave Y/N</td>
<td>No. Ganged Boxes</td>
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</tr>
<tr>
<td>-----------</td>
<td>------------------------</td>
<td>------------------</td>
<td>-------------------------------------</td>
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<td></td>
</tr>
</tbody>
</table>

Lighting Control Schedule

Centralized Lighting Control System

Lighting Control Schedule

www.lutron.com  Lutron World Headquarters: 1.610.282.3800
### Architectural Portfolio Accessory Schedule

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Symbol</th>
<th>QTY</th>
<th>Description</th>
<th>Rating</th>
<th>Model #</th>
<th>Color/Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>15A</td>
<td>20A</td>
<td></td>
<td>Receptacle</td>
<td>15A, 20A</td>
<td>NTR-15-NTR-20-</td>
<td></td>
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<tr>
<td>15A</td>
<td>20A</td>
<td></td>
<td>GFCI Receptacle</td>
<td>15A, 20A</td>
<td>NTR-15-GFCI-NTR-20-GFCI-</td>
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<tr>
<td>15A</td>
<td>20A</td>
<td></td>
<td>Isolated Ground Receptacle</td>
<td>15A, 20A</td>
<td>NTR-15-IG-NTR-20-IG-</td>
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<td>Telephone Jack</td>
<td>6-conductor</td>
<td>NT-PJ-</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Double Telephone Jack</td>
<td>8-conductor, each jack category 5</td>
<td>NT-PJ8X2-</td>
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<td></td>
<td></td>
<td>Triple Telephone Jack</td>
<td>8-conductor, each jack category 5</td>
<td>NT-PJ8X3-</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Cable TV Jack</td>
<td>F-Style, 75–Ohm coaxial cable</td>
<td>NT-CJ-</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Telephone/Cable TV Jack</td>
<td>8-conductor, category 5, 75–Ohm coaxial cable</td>
<td>NT-PJ8-CJ-</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Six Port Frame Jack</td>
<td>8-conductor, category 5, 75–Ohm coaxial cable</td>
<td>NT-6PF-</td>
<td></td>
</tr>
</tbody>
</table>
How To Order Custom Engraving

- Select the product drawing below that matches your control or wallplate
- Product drawings indicate the placement and number of lines available for engraving
- Engraving Chart (bottom, right) indicates the recommended maximums for point size and characters per line including spaces
- Use information from this page to fill out Engraving Schedule at right

Products Available for Engraving

- **GRAFIK Eye®** Control Units and wallstations
- Wallplates on Vareo®, NovaT®, Nova® controls and accessories
- VWP-, FB-, and NFB-Series wallplates

**ENGRAVING EXAMPLES**

**ENGRAVING CHART**

<table>
<thead>
<tr>
<th>Key</th>
<th>Point Size</th>
<th>Characters per Line (including spaces)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>B</td>
<td>8</td>
<td>6</td>
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<td>C</td>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td>D</td>
<td>8</td>
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<td>E</td>
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<td>13</td>
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<td>F</td>
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<td>G</td>
<td>10</td>
<td>14</td>
</tr>
<tr>
<td>H</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>I</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

**Recommended Maximums**
Engraving Schedule

1. List the Model Number of the Lutron Control or Wallplate To Be Engraved
   - Engraving available for GRAFIK Eye® Control Units and Wallstations; Vareo®, NovaT®, Nova® single-gang wallplates; and the VWP, NFB and FB wallplate
   - Model No.:

2. List Tracking Information from Lighting Load Schedule (see pg. 139)
   - Room Name:
   - Wallbox No.:

3. Draw in Wallplate or Control
   - Use pictures at left to determine how many lines, what point size and how many characters are available for engraving
   - Number the lines of engraving copy; fill in Engraving Worksheet (step 4) accordingly

4. Engraving Worksheet
   - (fill in wording)

<table>
<thead>
<tr>
<th>Line</th>
<th>Legend (Fill in wording to be engraved)</th>
<th>Left or Centered</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Example</td>
<td>L</td>
</tr>
<tr>
<td></td>
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5. Type Selections
   - (Select one from each option offered)

   **FONT TYPE:** (circle one)
   - Helvetica
   - HELV. ITALIC
   - MICROGRAM
   - AVANT
   - GOTHIC
   - TIMES ROMAN
   - Cursive
   - 8 POINT
   - 10 POINT
   - 12 POINT

   **TYPE FILL COLOR:** (circle one)
   - STRAW YELLOW
   - YELLOW
   - GRAY
   - BLACK
   - ROYAL BLUE
   - GOLD
   - GREEN
   - BROWN
   - LUTRON BLUE
   - WHITE
   - RED
   - BEIGE

   **CASE:** (circle one)
   - ALL LETTERS CAPITALIZED
   - First Letters Capitalized

   **LEFT OR CENTERED TYPE** (indicate on Engraving Worksheet)
   - ALL ON
   - Centered on large button (default)
   - Centered below small button
   - Left aligned to LED

6. Submit Schedule
   - To Lutron Customer Service

Requests for the engraving on this form and for other custom engraving or logos should be submitted directly to Lutron Customer Service.