

QSE-CI-NWK-E Control Interface



Description

- Integrates a *GRAFIK Eye* QS Lighting & Shade Control System with a touchscreen, PC, or other digital equipment that supports RS232 communication, or TCP/IP communication over Ethernet.
- Provides monitoring commands that allow a touchscreen or PC to query *GRAFIK Eye* QS Control Units to:
 - Determine which scene is selected.
 - Read individual zone's intensity.
 - Keep track of buttons pressed.
- Provides control commands that allow a touchscreen or PC to operate *GRAFIK Eye* Control Units to:
 - Select or sequence lighting scenes.
 - Raise or Lower one or more zones.
 - Set Zone Intensity on *GRAFIK Eye* QS Series Control Units, which allows users to set intensities on zones of light and to raise and to lower an individual shade zone (*Sivoia QS™* shades also allow the selection of individual shade zone levels).
 - Report scene changes and/or button presses.
- May be programmed to control any combination of *GRAFIK Eye* QS Series Control Units on the link.
- Provides two-way communication to and from QS system.
- One (1) QSE-CI-NWK-E per QS system.

Job Name:	Model Numbers:
Job Number:	

Specifications

Power

Low-voltage PELV (Class 2: USA).
 Operating Voltage: 12 - 24 V $\overline{=}$.

Uses QS Command Set for *Grafik Eye QS*

Monitoring: Scene selection, scene status updates, read zone intensity, read shade level.
 Control: Scene selection, scene lockout, sequencing, zone lockout, zone raise/lower, set shade level.
 Additional control with *GRAFIK Eye QS Series Control Units*: Set shade level.

System Communications and Capacity for RS232 Connection

- Low-voltage PELV (Class 2: USA) wiring connects the Control Interface to *GRAFIK Eye QS Control Units*.
- Standard male 9-pin serial connector plugs into RS232 equipment and the QSE-CI-NWK-E.
- 50 feet (15 m) maximum from QSE-CI-NWK-E Interface to PC or other RS232 source.

System Communications and Capacity for Ethernet Connection

- Low-voltage PELV (Class 2: USA) wiring connects the Control Interface to *GRAFIK Eye QS Control Units*.
- Standard CAT5 cable, 100 m (328 feet) maximum, connects the QSE-CI-NWK-E interface to a PC or other Ethernet source.
- Supports MDI/MDIX auto-crossover (no crossover cable needed).
- Auto-negotiation of 10 or 100 Mbps speed and full- or half-duplex operation.

Environment

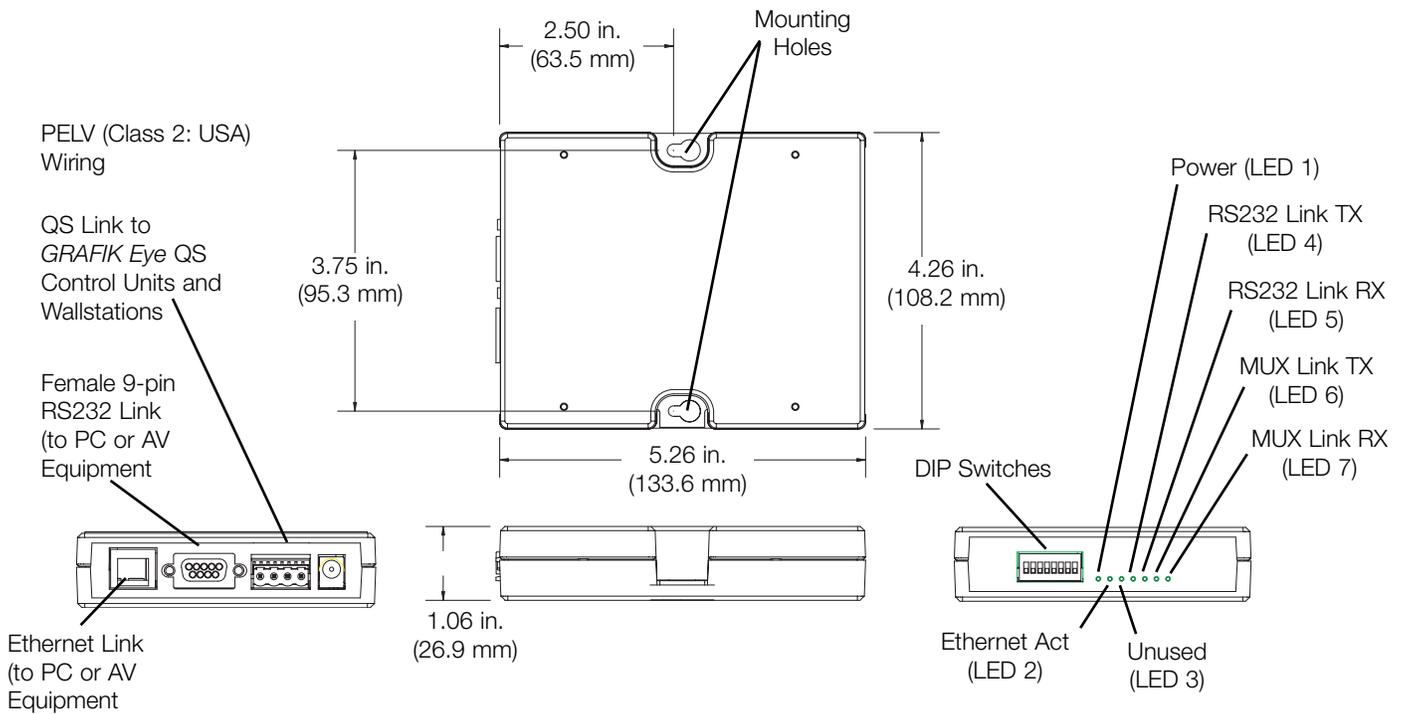
32 - 104 °F (0 - 40 °C). Relative humidity less than 90% non-condensing.

Functions

- Dip switches are set at factory, all Off.
- Only the RS232 or only the Ethernet may be in use at one time.

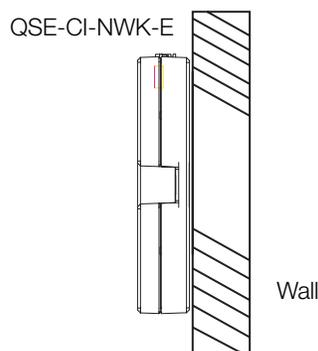
Job Name:	Model Numbers:
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Dimensions



Mounting

- Mounts directly to the wall.
- 19 in. AV rack mountable with 1U rack shelf from Lutron Model # LUT-19AV-1U.
- For conduit wiring options, use LUT-5x10-ENC.



Job Name:	Model Numbers:
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RS232 Link Wiring

- 9-pin to 9-pin serial cable provided.
- Standard 9-pin serial connector plugs into RS232 equipment, and to QSE-CI-NWK-E.
- Must be 50 feet (15 m) or less.

RS232 Signals

Signals	Pin on 9-pin Cable
Com	5
TxD	3
RxD	2

Ethernet Link Wiring

- Standard CAT5 cable connects QSE-CI-NWK-E Interface to PC, router, or other Ethernet source.
- No crossover cable needed.
- Must be 100 m (328 feet) or less.
- Ethernet network and cable provided by others.

Job Name:	Model Numbers:
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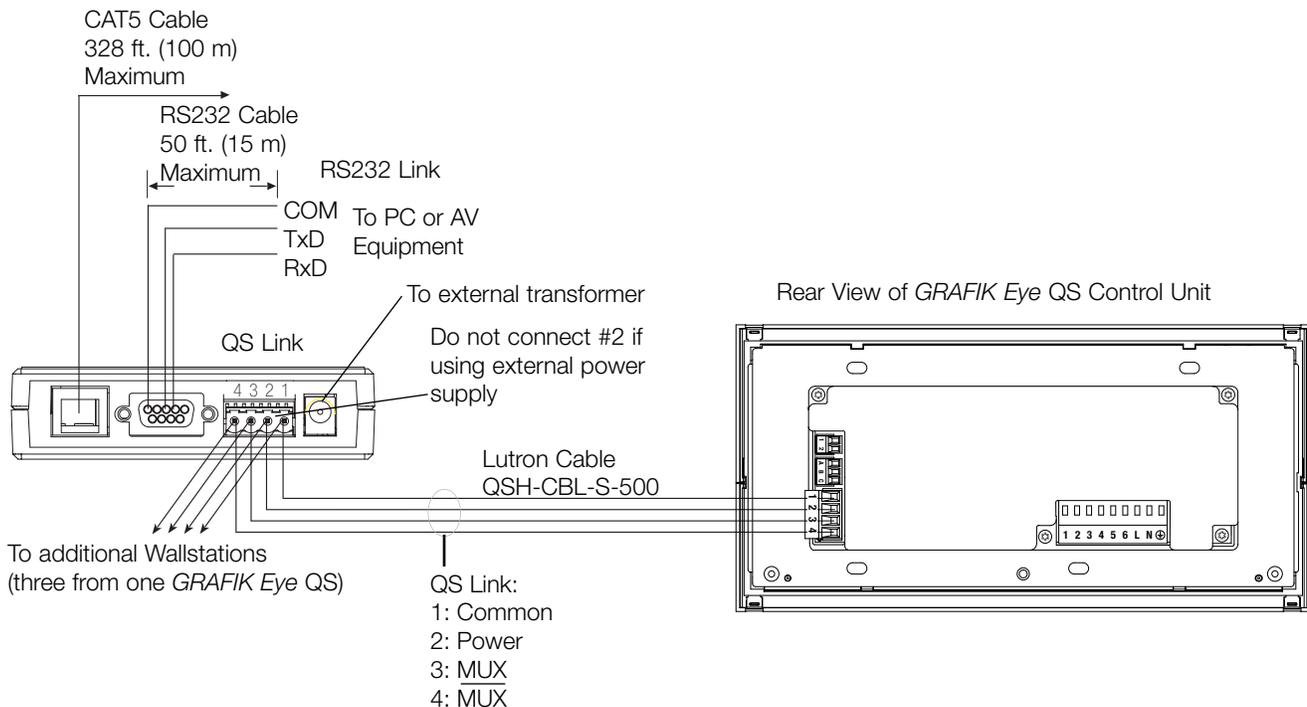
Low-Voltage PELV (Class 2: USA) Wiring

- Each PELV (Class 2: USA) terminal accepts up to two #18 AWG (1.0 mm²) wires.
- Connect the terminal 1, 3, and 4 connections to all control units, wallstations, and control interfaces. See Power Options below for pin 2 connectivity.
- Total length of control link must not exceed 2,000 ft. (610 m).
- Do not allow PELV (Class 2: USA) wires to contact line/mains wires.

Power Options

- Power for one QSE-CI-NWK-E counts as three devices toward the maximum of three devices per *GRAFIK Eye* QS Control Unit when powered off of Pin 2 of the QS Link.
 - To Power separately from the QS Link order the following transformer model numbers.
 - 120 V \sim : T120-15DC-9-BL
 - 240 V \sim : TE240-15DC-9-BL
 - 240 V \sim (UK): TU240-15DC-9-BL
- Note:** Do not connect Pin 2 of the QS Link to the QSE-CI-NWK-E when using optional transformer.

Control Interface Wiring

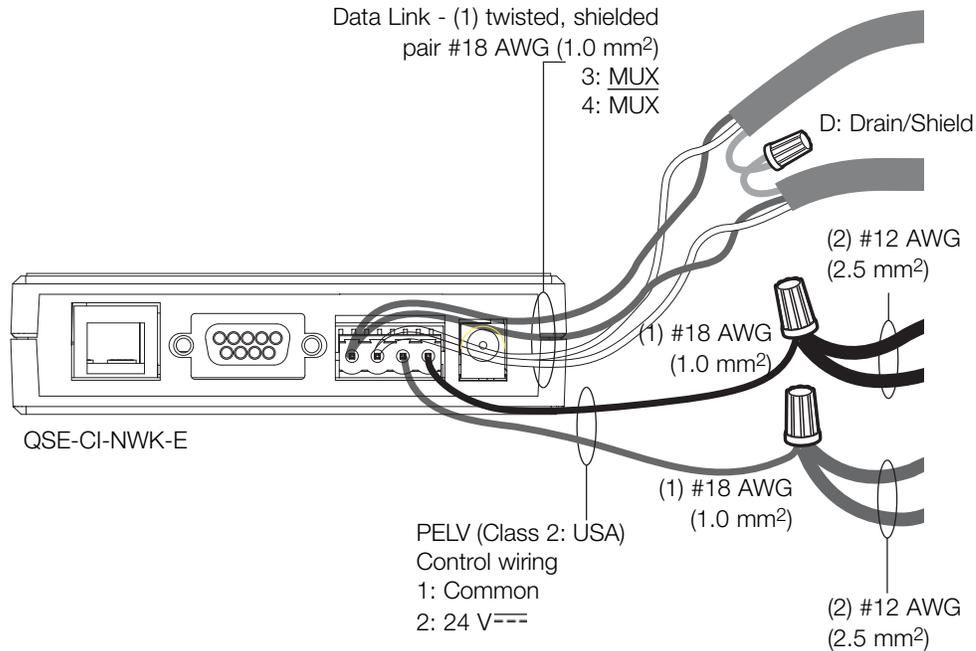


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PELV (Class 2: USA) Terminal Connections

When used with *GRAFIK Eye* QS Control Units

- Two #18 AWG (1.0 mm²) conductors for Common (terminal 1) and 24 V⁻⁻⁻ (terminal 2). Ensure that the terminal 2 connection is wired correctly. Refer to *GRAFIK Eye* QS Specification Submittal for more details.
- One shielded, twisted pair #18 AWG (1.0 mm²) for data link (terminals 3 and 4).



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