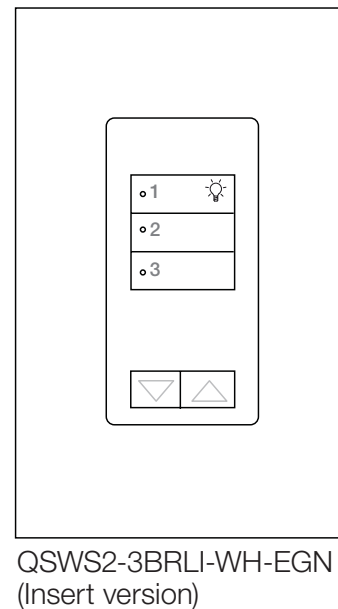
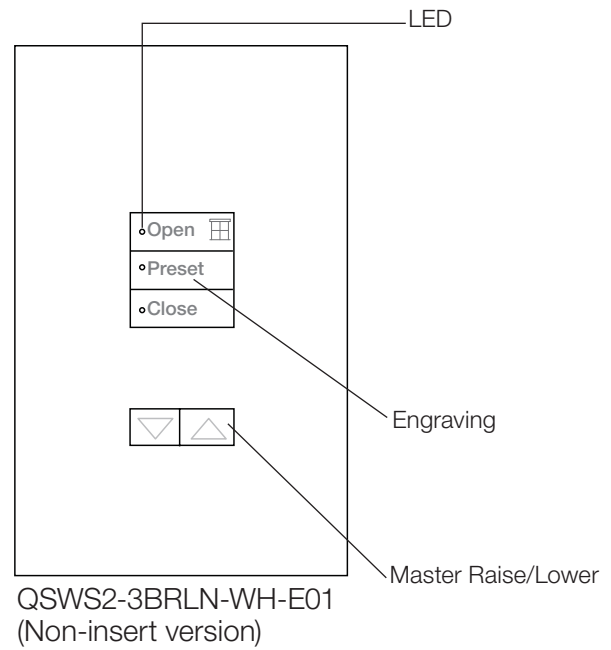


Color and Engraving Codes

QSW2-3BRLN-____-____
QSW2-3BRLI-____-____
3-Button Wallstation with
Raise/Lower

Description

- Often used to select and adjust scenes.
- Receives up to two contact closure inputs via a connector on the back of the Wallstation.
- Large, rounded buttons are easy to use.
- Backlit buttons with optional engraving make it easy to find and operate the Wallstation in low light conditions.
- Optional button engraving is angled up to the eye for easy reading.
- Master raise/lower brightens or dims all lighting or raises/lowers all assigned shades in the last selected scene or toggled group.
- The LEDs next to each button are used during programming and provide feedback when the buttons are pressed.
- Shade control features (E01 engraving):
 - Can control Sivoia® QS Window Treatments.
 - Pressing the Open (or Close) button once will cause the window treatments to move to their fully open (or closed) position. Tap any button (regardless of function) to stop a shade that is in motion.
 - |One (1) programmable preset button.



Job Name:	Model Numbers:	
Job Number:		

Color and Engraving Codes

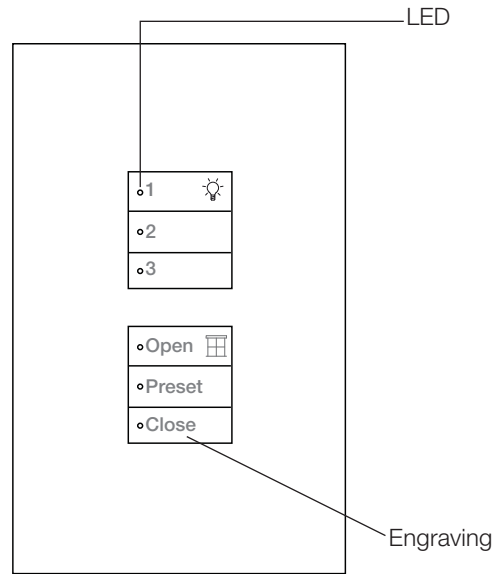
QSW2-3BDI-___-___

QSW2-3BDN-___-___

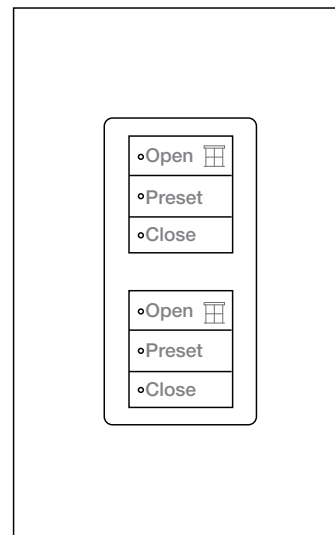
Dual 3-Button Wallstation

Description

- Used to control one or more lighting or window treatment groups simultaneously.
- Functions as two independently programmable 3-button controllers. Can control two lighting zones, two shade zones, or one of each.
- Receives up to two contact closure inputs via a connector on the back of the Wallstation.
- Large, rounded buttons are easy to use.
- Backlit buttons with on-button engraving make it easy to find and operate the Wallstation in low light conditions.
- Optional button engraving is angled up to the eye for easy reading.
- The LEDs next to each button are used during programming and provide feedback when the buttons are pressed.
- Shade control features (E01 engraving):
 - Can be used to control multiple groups of shades independently from a single-gang keypad (e.g., a window with a sheer shade and a blackout shade).
 - Can control Sivoia® QS Window Treatments.
 - Pressing the Open (or Close) button once will cause the window treatments to move to their fully open (or closed) position. Tap any button (regardless of function) to stop a shade that is in motion.
 - One (1) programmable preset button per 3-button column.



QSW2-1BN-WH
(Non-insert version)



QSW2-1BI-WH
(Insert version)

Job Name:	Model Numbers:	
Job Number:		

Specifications

Power Input (Control Link Terminal 2)

SELV/PELV/NEC® Class 2. Operating voltage: 24–36 V $\overline{=}$ 30 mA

Key Design Features

- Field-changeable button and faceplate assemblies allow easy customization.
- Meets IEC 801-2. Tested to withstand 15 kV electrostatic discharge without damage or memory loss.
- Faceplate snaps on with no visible means of attachment.
- Available as an “insert” style control for multigang.
- Can be ganged to share a common faceplate with NovaT $\star$ ® and Vareo® Dimmers. To order new Wallplates for multi-gang, specify “R3” openings in a NovaT $\star$ ® multi-gang FB (fins broken) Series model number.
- Use Faceplate Replacement Kits to change color, button configuration, or engraving, or to convert between non-insert and insert configurations.

System Communications and Capacity

- SELV/PELV/NEC® Class 2 wiring connects Wallstations to other devices on the QS Link.
- A QS system can have up to 100 devices and 100 zones; seeTouch® QS wallstations each count as 1 device and 0 zones on the QS Link.
- A seeTouch® QS wallstation consumes 1 power draw unit (PDU) on the QS link. For complete information, see “Power Draw Units on the QS Link,” Lutron PN 369405.

Terminals

Accept up to two 18 AWG (1.0 mm²).

Environment

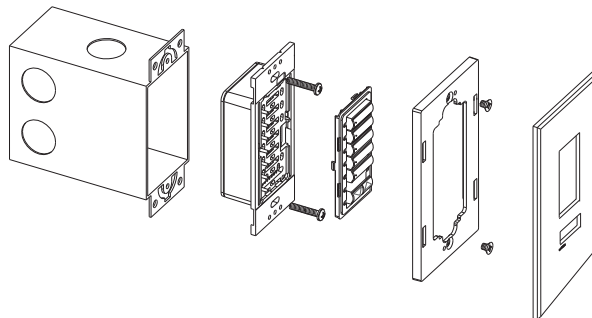
32 °F to 104 °F (0 °C to 40 °C). Relative humidity less than 90% non-condensing.

Compatibility

seeTouch® QS keypads are compatible with GRAFIK Eye® QS, Sivoia® QS, Energi Savr Node™, and Quantum®.

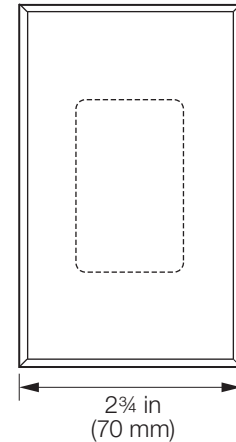
Mounting

Typical backbox dimensions:
3.75 in (95 mm) high,
2.1875 in (55 mm) wide,
2.75 in (70 mm) deep.

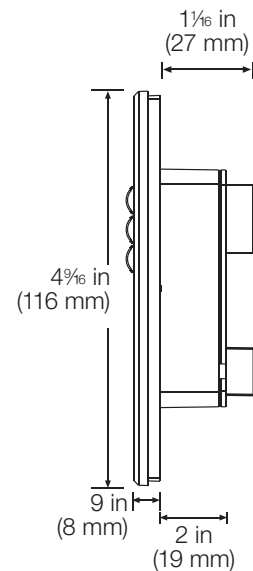


Dimensions

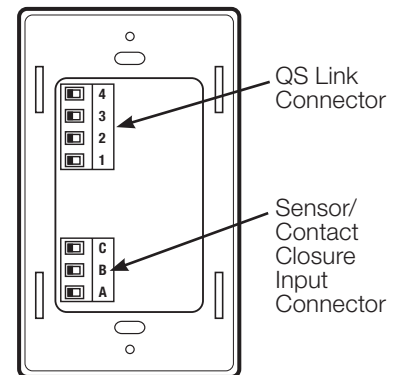
Front View



Side View



Back View



Job Name:	Model Numbers:	
Job Number:		

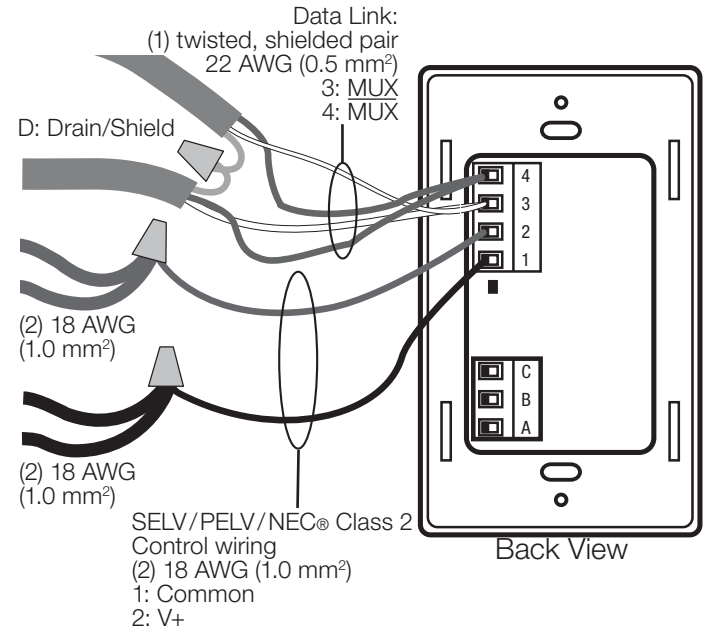
Wallstation Installation

QS Link Wiring

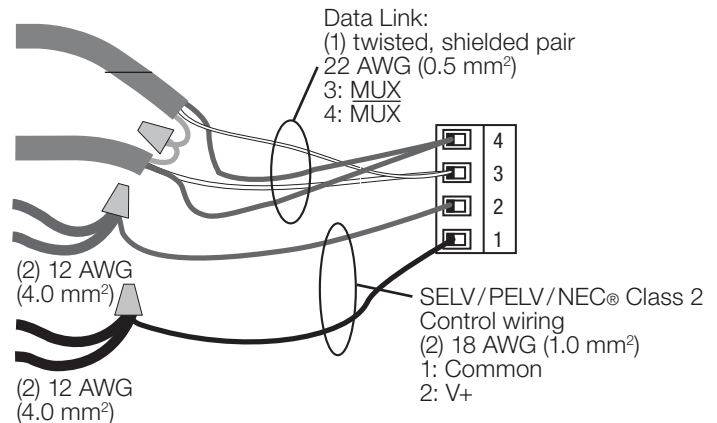
- Use SELV/PELV/NEC® Class 2 wiring to connect Wallstations to the QS link.
- Connect two 22 AWG (0.5 mm²) shielded, twisted pair wires to terminals 3 and 4 of the wallstation's control link connector. Shielding (drain) of the twisted pair wires must be connected together as shown, but do not connect the shielding to earth/ground or the wallstation and do not allow it to contact the grounded wallbox.
- Connect the appropriate size wires to terminals 1 and 2 for power, according to your link length (see table below).
- Connect Drain/Shield as shown. Do not connect to Ground (Earth) or Wallstation. Connect the bare drain wires and cut off the outside shield.

Note: Use appropriate wire connecting devices as specified by local codes.

Link Wiring (<500 ft/153 m)



Link Wiring (500 ft/153 m to 2000 ft/610 m)



QS Link Wire Sizes (check compatibility in your area)

QS Link Wiring Length	Wire Gauge	Lutron Cable Part Number
Less than 500 ft (153 m)	Power (terminals 1 and 2) 1 pair 18 AWG (1.0 mm²)	GRX-CBL-346S (non-plenum) GRX-PCBL-346S (plenum)
	Data (terminals 3 and 4) 1 twisted, shielded pair 22 AWG (0.5 mm²)	
500 to 2000 ft (153 to 610 m)	Power (terminals 1 and 2) 1 pair 12 AWG (4.0 mm²)	GRX-CBL-46L (non-plenum) GRX-PCBL-46L (plenum)
	Data (terminals 3 and 4) 1 twisted, shielded pair 22 AWG (0.5 mm²)	

Job Name:	Model Numbers:	
Job Number:		

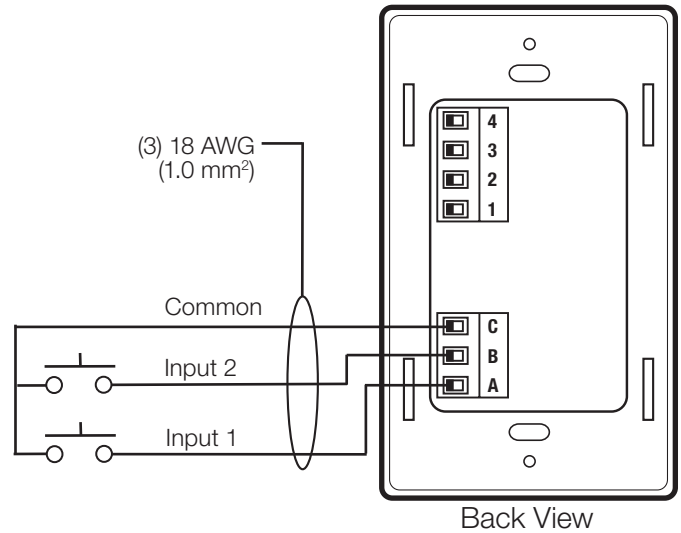
Contact Closure Inputs

Specifications

- Inputs must be dry contact closure, solid-state, open collector, or active-low (NPN)/active-high (PNP) output.
 - Open collector NPN or active-low on-state voltage must be less than 2 V_{DC} and sink 3.0 mA
 - Open collector PNP or active-high on-state voltage must be greater than 12 V_{DC} and source 3.0 mA
- Wallstation is miswire protected up to 36 V_{DC}.
- Outputs must stay in the closed or open states for at least 40 msec in order to be recognized by the Wallstation.

Contact Closure Input Wiring

- Use low-voltage SELV/PELV/NEC® Class 2 wiring to connect the contact closure inputs to the Wallstation.



Job Name:	Model Numbers:	
Job Number:		



LETTER OF TRANSMITTAL

To: Paric Corporation
77 Westport Plaza, Suite 250
St. Louis, MO 63146

Phone: 636-561-9500

Date: 12/08/16
Attn: Jason Szachnieski
Job #:
Job: Webster University ISB
Re: Window Shade Submittal

We Are Sending You: ☒ Attached ☐ Samples ☐ Copy of Letter
☒ Shop Drawings ☐ Plans ☐ Specification ☐ Other:

Copies	Description
1	Window Shades Submittal - Product Data, Shop Drawings, Color Samples

These Are Transmitted As Checked Below:

☒ For Approval ☒ Return one (1) corrected print ☐ For review and comment
☐ For your use ☐ As requested

Remarks:

Return one set of approved shop drawings with color selections to Interior Investments. Material will not be ordered until approved shop drawings with selections are returned.

Signed: Cory Van Britson, Project Manager



**MOTORIZED WINDOW SHADES
SHOP DRAWING SUBMITTAL
SECTION: 122413**

Job Name: Webster University ISB

Customer: Paric Corporation
77 Westport Plaza, Suite 250
St. Louis, MO 63146

Ship To:
Webster University ISB
8274 Big Bend Blvd.
Webster Groves, MO 63119

Contact: Jason Szachnieski
Phone: 636-561-9608
Email: jrszachnieski@paric.com

Interior Investments Contact: Cory Van Britson 314-300-5926

NOTE: BASKETWEAVE SPECIFIED
-PLEASE PROVIDE OPTIONS TO
SELECT BASKETWEAVE FABRICS -
BOTH 1% AND 3%

PRODUCT - MOTORIZED WINDOW SHADES

Manufacturer: Lutron Window Shading Systems

Operation: Motorized - Sivoia QS / Roller 100, 150 and 300 lift systems

Blackout Fabric Style: Value Premiere - Blackout 0% open (Color to be selected by Architect)

Sheer Fabric Style: Sheer Lite - Sheer 3% open (Color to be selected by architect)

Quantity / size: (190) Motorized Window Shades - all window sizes to be field verified

Location: Exterior windows throughout the 1st, 2nd, 3rd and 4th floors - see Shade Schedule

Accessories: Ceiling Pocket - 5" x 5" single shade pocket and 7" x 11" double shade pocket

Pocket Color: Pockets come in standard white - custom colors are White, Bronze or Clear Anodized
Architect to select color for pockets that will be mounted below the ceiling.

Controls: (9) Sivoia QS Smart Power Panels, (10) two group & (14) single group wall station keypads

Mounting Detail: The shades will be mounted in the ceiling pockets at the window heads

Control / Motor Location: See Shop Drawings for the locations of the motors and wall switches. Final locations of all wall switches and power panels to be located by others.

Remarks:

All Electrical work, connections and power wire / cable required for the operation of the motorized window shades to be provided and installed by others.

BELOW CEILING POCKETS - EAST SIDE
LEVELS 02, 03, 04: MATCH SHERWIN
WILLIAMS SW 7075 WEB GRAY.

Date Product is required: Advise

Product Lead Time: 6 - 8 weeks

Approved By:



**MOTORIZED WINDOW SHADES
SECTION: 122413
SHADE SCHEDULES**

**Webster University ISB
PRODUCT - MOTORIZED WINDOW SHADES**

<u>Level / Area:</u>	<u>Shade Type:</u>	<u>Rooms:</u>	<u>Qty:</u>
Level 01 - Area B	C.2 - (Type 2) Motorized Double Roller Shades. Surface mounted with custom color closure plate.	140 & 160	18 (36 total)
Level 02 - Area A	C.1 - (Type 1) Motorized Single Roller Shades in continuous recessed pocket (CFCI)	283 & 291	13
	C.30 - (Type 7) Motorized Double Roller Shades. Surface mounted with custom color fascia	284	8 (16 total)
	C.31 - (Type 8) Motorized Double Roller Shades in recessed pocket.	276	5 (10 total)
Level 02 - Area B	C.15 - (Type 5) Motorized Double Roller Shades in recessed pocket.	231, 233 & 235	29 (58 total)
Level 03 - Area A	C.1 - (Type 1) Motorized Single Roller Shades in continuous recessed or surface mounted pocket.	378, 383, 386, 388, 389 & 391	27
Level 04 - Area A	C.1 - (Type 1) Motorized Single Roller Shades in continuous recessed or surface mounted pocket.	472, 480, 483, 488, 489 & 491	30

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB	
PROJECT NAME	
8274 BIG BEND BLVD	
ADDRESS	
NUMBER	
WEBSTER UNIVERSITY	
OWNER	
CANNON DESIGN	
ARCHITECT / ENGINEER	
Joe Voypick	
SUBMITTED BY	
122413-005	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
	122413
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
Interior Investments	
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
	CRITICAL

ITEM BEING SUBMITTED (check only one)

- | | | |
|--------------------------------------|---|--|
| ☐ Shop Drawings | ☐ Certification / | ☐ Coordination Drawing |
| ☐ Samples | ☐ Qualifications | ☐ Calculations |
| ☐ (____ copies) | ☐ Record Documents | ☐ Schedules |
| ☐ LEED Submittal | ☒ Product Data | ☐ O&M Manuals |
| ☐ Other _____ | | |

ITEM BEING SUBMITTED FOR (check only one)

- ☒ Action ☐ Information Only ☐ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION (SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)



PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:

Devin D. Gates

To be completed by Reviewer

12 2413-005
CANNON DESIGN SUBMITTAL NUMBER
12/19/16
RECEIVED DATE

- ☐ A. No Exceptions Taken
No further review of submittal is required.
- ☒ B. Make Corrections Noted
Incorporate corrections in work; resubmission is not required.
- ☐ C. Revise and Resubmit
Revise as noted, and resubmit for review.
- ☐ D. Rejected
Submittal is not in compliance with Contract Documents; provide new submittal.
- ☐ E. For Record / Information Only
Submittal was reviewed for Record / Information purposes only.
- ☐ F. Not Required for Review
Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS

☐ See attached sheet(s) for additional comments

PROVIDE 12" X 12" SAMPLES OF ALL SHADE FABRICS FOR SELECTION INCLUDE LUTRON BASKETWEAVE , BASKETWEAVE 27, BASKETWEAVE 4000 ECO, BASKETWEAVE 90, BASKETWEAVE E SCREEN.BASKETWEAVE MS IN ADDITION TO SHEERLITE PROVIDE 1% AND 3% OPEN FABRICS.

PLENUM RATED SHADE PANELS ARE REQUIRED: QSPS-10-PNL

SURFACE MOUNTED POCKETS - NOTE CUSTOM COLOR SPECIFIED

Joe Voypick	12/19/16
REVIEWED BY	DATE

Lynn Grossman	01.22.17
REVIEWED BY	DATE

Digitally signed by Lynn Grossman
DN: cn=Lynn Grossman, o=Cannon Design, cn=Lynn Grossman
Date: 2017.01.22 11:48:03 -06'00'



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0386

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 12/19/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

RE: Motorized Roller Window Shades Product
Data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☒ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☒ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		122413-005	1		12/19/2016	Motorized Roller Window Shades Product Data	Submitted

NOTES:

CC:

Signed: _____
Devin Gates