TYPICAL ECOSYSTEM LOOP - TYPICAL BALLASTS, DRIVERS, & INTERFACES

INPUT FEED FROM DISTRIBUTION PANEL
EHD-TXN-x-x-xx
H-SERIES BALLAST
FROM ECOSYSTEM DIN RAIL MODULE
ECOSYSTEM DIGITAL LOOP #

INPUT FEED FROM DISTRIBUTION PANEL
LUTRON HI-LUME 1% LED DRIVER CASE TYPE K, 120V/277V

INPUT FEED FROM DISTRIBUTION PANEL
LUTRON HI-LUME 1% LED DRIVER WITH SOFT-ON, FADE-TO-BLACK CASE TYPE K, 120V/277V

INPUT FEED FROM DISTRIBUTION PANEL
LUTRON S-SERIES LED DRIVER CASE TYPE K, 120V/277V

INPUT FEED FROM DISTRIBUTION PANEL
LUTRON HI-LUME PREMIER 0.1% LED DRIVER, 120/277V

TVI-LMF-32K
ECOSYSTEM TO 0-10V INTERFACE
120/220/240/277V, 50/60Hz
3.07(H) X 4.2"(W) X 1.01"(D)
(76mm X 107mm X 25mm)

TO 0-10V LED DRIVER (BY OTHERS)

CS-BMQ-10A
ECOSYSTEM DIMMING POWER MODULE FOR 3-WIRE LUTRON DIMMING BALLASTS/DRIVERS
120V, 50/60Hz
7.8"(H) X 5.0"(W) X 2.5"(D)
(200mm X 130mm X 65mm)

PHPM-WBX-DV-WH
120-277V, 50/60Hz
PHASE-ADAPTIVE POWER MODULE WITH 120V FLUORESCENT INPUT
5.71"(H) X 6.3"(W) X 2.0"(D)
(129.5mm X 160mm X 66mm)

ZONE #

CS-3PX-10A
ECOSYSTEM SWITCHING POWER MODULE FOR NON-DIM LOADS
120-277V, 50/60Hz
7.8"(H) X 5.0"(W) X 4.5"(D)
(200mm X 130mm X 64mm)

TO NON-DIM LOAD

INPUT FEED FROM DISTRIBUTION PANEL

LUTRON ENABLED CONTROL TECHNOLOGY

TO ECOSYSTEM BALLASTS/MODULES (64 MAX PER LOOP)

TO ADD'L PROCESSORS AS REQUIRED (DO NOT EXCEED SYSTEM LIMITS)

ANDROID OR IOS PHONE (PROVIDED BY OTHERS) CONNECTS TO LUTRON SYSTEM VIA DOWNLOADABLE APP LUTRON CONNECT

ANDROID OR IOS DEVICE (PROVIDED BY OTHERS) CONNECTS TO LUTRON SYSTEM VIA DOWNLOADABLE APP LUTRON CONNECT

WIRELESS ROUTER BY OTHERS

ETHERNET NETWORK:

LOCAL AREA NETWORK SHARED RESIDENTIAL LAN (Local Area Network). THE INTER-PROCESSOR NETWORK MAY BE CONNECTED THROUGH A SHARED INTRANET ALL NETWORK EQUIPMENT INCLUDING ROUTERS, SWITCHES, AND NETWORK CABLES ARE SUPPLIED BY OTHERS AND MUST ADHERE TO LUTRON SPECIFICATIONS. THE SHARED INTRANET MUST BE ABLE TO PASS LUTRON DATA. THE LAN NETWORK ARCHITECTURE AND SETUP MUST BE COORDINATED THROUGH THE END USERS INFORMATION TECHNOLOGY GROUP OR CONSULTANT AND MAY REQUIRE ADDITIONAL STARTUP TIME AND EXPENSE.

CONNECT-BDQ2-1
LUTRON CONNECT BRIDGE PROVIDES REMOTE ACCESS TO CONTROL AND MONITOR SYSTEM VIA LUTRON CONNECT APP
LOCATION TBD

(1) HQRS-1
HOMEWORKS QS PROCESSOR WITH (1) CONFIGURABLE LINK
(1) QSPS-DIN-1.75-H
100-277V~, 50/60 Hz
HOMEWORKS QS DIN RAIL POWER SUPPLY
HQ-LV21-120
120V~, 50/60 Hz, HOMEWORKS QS LOW VOLTAGE ENCLOSURE
21.00"(H) X 14.38"(W) X 4.09"(D)
(533mm X 365mm X 104mm)
LOCATION TBD

(2) HQRS-2
HOMEWORKS QS PROCESSOR WITH (2) CONFIGURABLE LINKS
(2) QSPS-DIN-1.75-H
100-277V~, 50/60 Hz
HOMEWORKS QS DIN RAIL POWER SUPPLY
HQ-LV21-120
120V~, 50/60 Hz, HOMEWORKS QS LOW VOLTAGE ENCLOSURE
21.00"(H) X 14.38"(W) X 4.09"(D)
(533mm X 365mm X 104mm)
LOCATION TBD

(3) QS-WLB
QS WIRE LANDING BOARD
LOCATION TBD

WIRING LEGEND:

△Q QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW)
▲Q QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW)
(CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE # 2)

▲T THERMOSTAT CONTROL LINK (SEE WIRE DESCRIPTION BELOW)
(CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE # 2)

QS WIRING AS REQUIRED BY CONTROL LINK LENGTH
(REFER TO QS SMART PANEL POWER SUPPLY WIRING GUIDE FOR SHADE WIRING NOTES)

TOTAL CONTROL LINK LENGTH	WIRE GUAGE	AVAILABLE FROM LUTRON IN ONE CABLE:
LESS THAN 500ft (152 m)	POWER (TERMINALS 1&2) 1 PAIR 18 AWG (1.0 mm²)	GRX-CBL-346S OR GRX-PCBL-346S
	DATA (TERMINALS 3,4&5) 1 PAIR 22 AWG (0.5 mm²), TWISTED AND SHIELDED*	
500ft (153 m) TO 2,000ft (600 m)**	POWER (TERMINALS 1&2) 1 PAIR 12 AWG (2 mm²)	GRX-CBL-46S OR GRX-PCBL-46S
	DATA (TERMINALS 3,4&5) 1 PAIR 22 AWG (0.5 mm²), TWISTED AND SHIELDED*	

*ALTERNATE DATA-ONLY CABLE: USE APPROVED DATA LINK CABLE (22 AWG [0.5 mm²] TWISTED/SHIELDED) FROM BELDEN (MODEL # 9451).
**TOTAL LENGTH OF THE QS LINK MUST NOT EXCEED 2,000 ft (600 m).

△R RF CONTROL LINK (SEE WIRE DESCRIPTION BELOW)
▲R RF CONTROL LINK (SEE WIRE DESCRIPTION BELOW)
(CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE # 2)
LUTRON CABLE GRX-CBL-46, (5 CONDUCTOR NON-PLENUM) OR GRX-PCBL-46, (5 CONDUCTOR PLENUM RATED); OTHERWISE USE 2 #12 AWG (4 mm²), 1 BELDEN #9461.

▷ PANEL LINK (SEE WIRE DESCRIPTION BELOW)
▶ PANEL LINK (SEE WIRE DESCRIPTION BELOW)
(CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE # 2)
LUTRON CABLE GRX-CBL-46, (5 CONDUCTOR NON-PLENUM) OR GRX-PCBL-46, (5 CONDUCTOR PLENUM RATED); OTHERWISE USE 2 #12 AWG (4 mm²), 1 BELDEN #9461.

△H H4B/Q96 LINK (SEE WIRE DESCRIPTION BELOW)
▲H H4B/Q96 LINK (SEE WIRE DESCRIPTION BELOW)
(CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE # 2)
LUTRON CABLE GRX-CBL-46, (5 CONDUCTOR NON-PLENUM) OR GRX-PCBL-46, (5 CONDUCTOR PLENUM RATED); OTHERWISE USE 2 #12 AWG (4 mm²), 1 BELDEN #9461.

◁

QS SMART PANEL POWER SUPPLY (QSPS-PX-10-60) SHADE WIRING GUIDE

MAXIMUM DEVICES PER ONE OUTPUT		MAXIMUM DISTANCE PER ONE OUTPUT BASED ON WIRE GUAGE		
SHADES + CONTROLS		12 AWG (4 mm²) GSN-CBL-4-500 GSN-CBLP-4-500	16 AWG (1.5 mm²) GSN-CBL-M-500 GSN-CBLP-M-500	18 AWG (1.0 mm²) GRX-CBL-346S-500
1 SIVOIA QS SHADE OR DRAPERY	UP TO 1 POWER DRAW UNIT	500 ft (150 m)	200 ft (60 m)	125 ft (38 m)
2 SIVOIA QS ROLLER 84™ 4.30"Ø (2.75 mT) EACH		200 ft (60 m)	75 ft (20 m)	50 ft (15 m)
3 SIVOIA QS ROLLER 84™ 4.30"Ø (2.75 mT) EACH				
2 SIVOIA QS ROLLER 100™ 4.92"Ø (3.5 mT) EACH				

QS INDIVIDUAL POWER SUPPLY (QSPS-PX-1-60 OR QSPS-J-1-50) SHADE WIRING GUIDE

MAXIMUM DEVICES PER ONE OUTPUT		MAXIMUM DISTANCE PER ONE OUTPUT BASED ON WIRE GUAGE		
SHADES + CONTROLS		12 AWG (4 mm²) GSN-CBL-4-500 GSN-CBLP-4-500	16 AWG (1.5 mm²) GSN-CBL-M-500 GSN-CBLP-M-500	18 AWG (1.0 mm²) GRX-CBL-346S-500
1 SIVOIA QS SHADE OR DRAPERY	UP TO 1 POWER DRAW UNIT	250 ft (75 m)	100 ft (30 m)	50 ft (15 m)

□ INPUT POWER (NORMAL)
● 2 #12AWG (4 mm²)
○ 3 #12AWG (4 mm²)
◆ 0-10V SIGNAL: 2 #18AWG (1.0 mm²)
◇ ECOSYSTEM BUS/LOOP:
(1) #22 AWG (0.5 mm²) SHIELDED OR (2) #16 CONDUCTOR NON-PLENUM; OR C-PCBL-216-CL-1 (2 #16 CONDUCTOR PLENUM RATED). OTHERWISE USE 2 #18 AWG (1.5 mm²) BY OTHERS.
E CAT5E OR BETTER CABLE FOR LUTRON NETWORK TERMINATED WITH APPROPRIATE CONNECTORS (TO BE PROVIDED BY OTHERS). SUBORD. (3) UTP OR RJ45
F FIBER OPTIC CABLE FOR LUTRON NETWORK TERMINATED WITH APPROPRIATE FIBER OPTIC CONNECTORS (TO BE PROVIDED BY OTHERS). NOTE: REQUIRES DEDICATED FIBER OPTIC LINK (SINGLE-MODE OR MULTI-MODE).

1-WAY RF COMMUNICATION
2-WAY RF COMMUNICATION
2 #18AWG (1.0 mm²)
3 #18AWG (1.0 mm²)
LUTRON SENSOR CABLE C-CBL-5225 OTHERWISE USE 3 #22 AWG (1.0 mm²)
LUTRON SENSOR CABLE C-CBL-5225 OTHERWISE USE 4 #22 AWG (1.0 mm²)
DMX CONTROL
DALI LINK

WIRING NOTES:

HWQS QS LINK RULES

THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:

- THIS IS A TOPOLOGY-FREE LINK (T-TAP, HOME-RUN, ETC. IS OK); REFER TO TABLE BELOW FOR WIRE RUN LIMITS.
- IF WIRED DIFFERENTLY THAN WHAT IS SHOWN, POWER DRAW UNIT REQUIREMENTS NEED TO BE CONFIRMED. SEE POWER DRAW UNITS (PDUs) SPECIFICATION SHEET INCLUDED IN THIS SUBMITTAL.
- MAXIMUM OF 512 OUTPUTS (BALLASTS, SHADES, CONTACT CLOSURES, ETC).
- MAXIMUM OF 100 OCCUPANCY SENSORS, 100 RADIO WINDOW SENSORS AND 100 KEYPADS.
- MAXIMUM OF 100 QS DEVICES (SUCH AS A GRAFIK EYE® QS, SEETOUCH® QS KEYPAD, SMART PANEL POWER SUPPLY [QSPS-PX-10-60], ESN, OR SIVOIA® QS SHADE / DRAPERY DRIVE UNIT). HWQS PROCESSOR COUNTS AS 1 DEVICE PER LINK.
- THE 10 OUTPUTS ON A QSPS-PX-10-60 CANNOT EXCEED A COMBINED LENGTH OF 2,000 ft (600 m).

HWQS WIRELESS LINK RULES

THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:

- 4 WIRELESS LINKS MAXIMUM
- 4 REPEATERS PER WIRELESS LINK
- 100 WIRELESS DEVICES PER LINK
- 100 SWITCH LEGS PER WIRELESS LINK
- 2500 FT2 (762 M2) COVERAGE PER REPEATER
- 30 FT (9 M) FROM ANY NON-REPEATER TO REPEATER
- 60 FT (18 M) BETWEEN REPEATERS
- DAISY CHAIN WIRE RUN BETWEEN PROCESSOR AND/OR REPEATERS CANNOT EXCEED 1000 FT (305 M)
- REPEATERS CAN BE WIRED TOGETHER, BUT MUST BE DAISY-CHAINED.

HWQS ECOSYSTEM BUS/LOOP RULES

THE FOLLOWING LOOP RULES MUST BE OBSERVED FOR PROPER OPERATION:

- THIS IS TOPOLOGY-LIMITED AND POLARITY FREE WIRING (T-TAP, HOME-RUN, ETC. IS OK).
- KEEP ALL THE BALLASTS/MODULES IN ONE ROOM ON THE SAME LOOP WHENEVER POSSIBLE.
- ECOSYSTEM LOOPS ARE SHOWN ON THE LIGHTING PLANS. IF THERE IS A DISCREPANCY, AND ROOMS ARE WIRED TO A DIFFERENT LOOP THAN THE ONE SHOWN, LUTRON NEEDS TO BE NOTIFIED. THIS INFORMATION IS IMPORTANT FOR PROGRAMMING THE SYSTEM.
- UP TO 64 BALLASTS/DRIVERS PER ECOSYSTEM LOOP

HWQS PANEL LINK RULES

THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:

- MIX/MI COMPATIBLE. CIRCUIT SELECTORS NOT SUPPORTED
- PANELS ARE DAISY-CHAINED ON ONE OF THE CONFIGURABLE LINKS PER LUTRON'S DRAWING, HOWEVER THEY DO NOT HAVE TO BE IN THE ORDER SHOWN.
- DO NOT HOME-RUN OR T-TAP THIS WIRING. ALL CIRCUITS NEED TO BE LANDED IN THESE PANELS PER LUTRON'S PANEL SCHEDULES.
- IF A PANEL IS MOVED TO ANOTHER LINK, OR THE LOADS ARE NOT WIRED AS SHOWN IN LUTRON PANEL SCHEDULES, LUTRON MUST BE NOTIFIED. THIS INFORMATION IS IMPORTANT FOR PROGRAMMING THE SYSTEM.
- UP TO 16 MI/SPI PER LINK OR 256 SWITCH LEGS PER LINK, WHICHEVER IS REACHED FIRST
- LT-1 LINK TERMINATORS NEEDED ON EACH END OF THE LINK

H4B/Q96 LINK RULES

THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:

- H4B/Q96 LINK CANNOT EXCEED 1000 FT.
- A LINK TRANSLATOR MUST BE USED OVER 50FT. ONLY 1 TRANSLATOR REQUIRED PER LINK. IF A TRANSLATOR IS ADDED TO THE LINK, A LINK TERMINATOR (LT-1) WILL BE ERQUIRED AT THE FARTHEST INTERFACE BOARD FROM THE PROCESSOR.
- MAXIMUM OF 4 ADDRESSES, EACH H4B AND Q96 COUNT AS 1 ADDRESS. THESE DEVICES MUST BE DAISY-CHAINED.
- EACH H4B H4B 6 BUSSES WITH UP TO 8 DIMMERS PER BUS. BUS WIRING IS TYPOLOGY FREE (T-TAP, HOME-RUN, ETC. IS OK).
- EACH MAESTRO BUS MAY HAVE A MAXIMUM OF 500FT PER WIRE RUN, BUT MAY NOT EXCEED 1000FT.

PANEL(S) BASED ON _____ DATED XX.XX.XX FROM _____

CONCEPT DRAWING NOTES:
CONTROL SYSTEM DRAWING IS PROVIDED FOR CONCEPTUAL PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION OR INSTALLATION PURPOSES. EXACT QUANTITIES, DEVICE LOCATIONS, AND WIRING DIAGRAMS WITH FULL LAYOUT-UP-TO-DATE LIGHTING/ELECTRICAL REFLECTED CEILING PLANS, LIGHTING FIXTURE SCHEDULES, PANEL SCHEDULES, CONTROL INTENT AND SPECIFICATIONS. SHADE EQUIPMENT SHOULD BE VERIFIED IN ACCORDANCE WITH ARCHITECTURAL PLANS, SPECIFICATIONS AND WINDOW SCHEDULES/DETAILS.

LED DIMMING REQUIRES AN EXACT MATCH BETWEEN THE LED ARRAY, DRIVER AND CONTROL. LUTRON CANNOT GUARANTEE COMPATIBILITY OR PERFORMANCE WITHOUT TESTING THIS COMBINATION.

TO CONFIRM WHAT PRODUCTS LUTRON HAS AVAILABLE OR WHAT INTERFACES MAY BE REQUIRED, PLEASE REFER TO LUTRON'S EDGE OR CHECK LUTRON'S PRODUCT COMPATIBILITY MATRIX ON-LINE AT WWW.LUTRON.COM/LED.

TO REQUEST THE TESTING OF AN LED PRODUCT BY LUTRON MANUFACTURERS CAN FILL OUT AN LED EVALUATION REQUEST FORM ON-LINE AT WWW.LUTRON.COM/LED OR CONTACT LEDS@LUTRON.COM.

LUTRON CAN GUARANTEE COMPATIBILITY AND PERFORMANCE OF LUTRON HI-LUME A-SERIES LED DRIVERS USED WITH APPROPRIATE LUTRON CONTROLS. THE HI-LUME A-SERIES LED DRIVER CAN BE USED ON PRODUCTS UNDER 40 WATTS WITH SUITABLE MOUNTING LOCATIONS. PLEASE REFER TO THE SPECIFICATION SUBMITTAL SHEET FOR FURTHER INFORMATION.

IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING 0-10V CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. PRODUCTS FOLLOWING THE IEC STANDARD 60929 ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.

IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING PHASE CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. PRODUCTS THAT ARE CAPABLE OF PROVIDING HIGH END AND LOW END TRIM ADJUSTMENTS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.

LUTRON NOTES:

ALL DIMMING BALLASTS TO BE LUTRON ECOSYSTEM. ECOSYSTEM H-SERIES, OR HI-LUME 3D TYPE.
ALL DIMMING DRIVERS TO BE LUTRON ECOSYSTEM DRIVER: A-SERIES, H-SERIES, OR S-SERIES OTHERWISE NOTED.

E.E. TO CONFIRM ALL CIRCUITING REQUIREMENTS.

ARCHITECT TO VERIFY QUANTITY, LOCATION & FINISH OF ALL CONTROLS.

ALL FACEPLATES, DIMMERS, SWITCHES, RECEPTACLES & CABLE/PHONE JACKS TO BE LUTRON NOVA T®

LUTRON FIELD SERVICE COMMISSIONING INCLUDED IN ALL SYSTEMS INITIATES AN 2 YEAR LIMITED WARRANTY. THE ELECTRICAL CONTRACTOR MUST CONTACT LUTRON (1-844-588-7661) TO SET UP VISIT WITH 10 DAYS NOTICE.

HOMEWORKS QS - PANEL LINK EQUIPMENT

120V, NORMAL FEED-THROUGH CIRCUITS
HWMPS-PX
120V~, 50/60 Hz
FEED-THRU PANEL ENCLOSURE W/ (1) HWI-MI-120 MODULE INTERFACE, (#) 4A, (#) 4J, (#) 4R, (#) 4FSQ, (#) 4M REMOTE POWER MODULES, (#) HW-TVMKIT-120, & (#) GRX-TVM2 0-10V MODULES
ENCLOSURE DIMENSIONS: 59"(H) X 14.375"(W) X 4.125"(D)
(1499mm X 365mm X 105mm)
LOCATION TBD

120V, NORMAL FEED-THROUGH CIRCUITS
HWMPS-PX
120V~, 50/60 Hz
FEED-THRU PANEL ENCLOSURE W/ (1) HWI-MI-120 MODULE INTERFACE AND (#) 4A, (#) 4J, (#) 4R, (#) 4FSQ, (#) 4M REMOTE POWER MODULES
ENCLOSURE DIMENSIONS: 32"(H) X 14.375"(W) X 4.125"(D)
(813mm X 365mm X 98mm)
LOCATION TBD

120V, (X) PHASE (X) WIRE NORMAL FEED LOAD INPUT POWER
HWMPS-2A-120LX
120V~, 50/60 Hz
CONTROL POWER PANEL ENCLOSURE W/ (8) xxA AFCI BRANCH CIRCUIT BREAKERS, (1) HWI-MI-120 MODULE INTERFACE, (#) 4A, (#) 4J, (#) 4R, (#) 4FSQ, (#) 4M REMOTE POWER MODULES, (#) HW-TVMKIT-120, & (#) GRX-TVM2 0-10V MODULES
ENCLOSURE DIMENSIONS: 59"(H) X 15.125"(W) X 4.125"(D)
(1499mm X 384mm X 105mm)
LOCATION TBD

120V, (X) PHASE (X) WIRE NORMAL FEED LOAD INPUT POWER
HWMPS-2A-120LX
120V~, 50/60 Hz
CONTROL POWER PANEL ENCLOSURE W/ (8) xxA BRANCH CIRCUIT BREAKERS, (1) HWI-MI-120 MODULE INTERFACE, (#) 4A, (#) 4J, (#) 4R, (#) 4FSQ, (#) 4M REMOTE POWER MODULES, (#) HW-TVMKIT-120, & (#) GRX-TVM2 0-10V MODULES
ENCLOSURE DIMENSIONS: 59"(H) X 15.125"(W) X 4.125"(D)
(1499mm X 384mm X 105mm)
LOCATION TBD

120V, (X) PHASE (X) WIRE NORMAL FEED LOAD INPUT POWER
HWMPS-2A-120LX
120V~, 50/60 Hz
CONTROL POWER PANEL W/ (8) xxA BRANCH CIRCUIT BREAKERS, (1) HWI-MI-120 MODULE INTERFACE & (#) HW-RPM-4R REMOTE POWER MODULES
ENCLOSURE DIMENSIONS: 24"(H) X 15.125"(W) X 4.125"(D)
(610mm X 384mm X 105mm)
LOCATION TBD

TYPICAL WIRELESS REPEATERS
MAX OF 4 REPEATERS PER WIRELESS LINK
HQR-REP-120
434MHZ HYBRID REPEATER HOMEWORKS QS
5.25"(H) X 4.25"(W) X 1.06"(D)
(133mm X 108mm X 27mm)
LOCATION TBD
HQR-REP-120
434MHZ HYBRID REPEATER HOMEWORKS QS
5.25"(H) X 4.25"(W) X 1.06"(D)
(133mm X 108mm X 27mm)
LOCATION TBD

AS REQUIRED
FOR CAR VISOR CONTROL
HQR-VCRX-WH
HOMEWORKS QS VISOR CONTROL RECEIVER
5.25"(H) X 4.25"(W) X 1.06"(D)
(133mm X 108mm X 27mm)
LOCATION TBD
LR-3B-H-DIV
HOMEWORKS QS VISOR CONTROL TRANSMITTER
1.50"(H) X 3.25"(W) X 0.75"(D)
(38mm X 81mm X 19mm)

TYPICAL TABLE TOP KEYPAD
(OTHER BUTTON CONFIGURATIONS AND FINISHES AVAILABLE. SEE SPEC SHEET FOR MODEL NUMBERS.)
HQR-T10RL-DW
15-BUTTON TABLE TOP MASTER CONTROL WITH RAISE/LOWER & ALL ON/ALL OFF
3.25"(H) X 3.56"(W) X 1.00"(D)
(82mm X 91mm X 25mm)
LOCATION TBD
HQR-T10CRL-DW
10-BUTTON TABLE TOP MASTER CONTROL WITH COLUMN RAISE/LOWER
3.25"(H) X 3.56"(W) X 1.00"(D)
(82mm X 91mm X 25mm)
LOCATION TBD
HQR-T5RL-DW
5-BUTTON TABLE TOP MASTER CONTROL WITH RAISE/LOWER & ALL ON/ALL OFF
3.25"(H) X 3.56"(W) X 1.00"(D)
(82mm X 91mm X 25mm)
LOCATION TBD

TYPICAL PICO WIRELESS WALL CONTROL
(OTHER BUTTON CONFIGURATIONS AND FINISHES AVAILABLE. SEE SPEC SHEET FOR MODEL NUMBERS.)
PJ2-2BRL-GWH-XXX
434 MHZ PICO WIRELESS
2 BUTTON CONTROL WITH RAISE/LOWER SHOWN WITH CW-1-WH CLARO FACEPLATE
*SEE SPECIFICATION SHEET FOR DIMENSIONS, ADDITIONAL OPTIONS, & MOUNTING INSTRUCTIONS
LOCATION TBD

TYPICAL PLUG-IN LOAD CONTROLLERS
HQR-SLD-WH
120V~, 50/60 Hz
RF LAMP DIMMER
300W/300VA INCMLV
3.20"(H) X 2.44"(W) X 0.94"(D)
(83mm X 62mm X 24mm)
LOCATION TBD
HQR-15APS-1-SW
120V~, 50/60 Hz
PLUG-IN APPLIANCE SWITCHING MODULE, 15A/3.5HP MAX
3.25"(H) X 2.25"(W) X 1.25"(D)
(83mm X 57mm X 32mm)
RECEPTACLE CORD LENGTH: 6" (152mm)
PLUG CORD LENGTH: 24" (610mm)
LOCATION TBD
HQR-3PD-1-SW
120V~, 50/60 Hz
RF PLUG-IN DIMMER MODULE
300W/300VA INCHALMLV
3.25"(H) X 2.25"(W) X 1.25"(D)
(83mm X 57mm X 32mm)
RECEPTACLE CORD LENGTH: 6" (152mm)
PLUG CORD LENGTH: 24" (610mm)
LOCATION TBD

TYPICAL WIRELESS LOCAL CONTROLS - ARCHITECTURAL STYLE
(OTHER CONTROL TYPES AND FINISHES AVAILABLE. SEE SPEC SHEET FOR MODEL NUMBERS)
ZONE X CEILING FAN
HQRA-2ANF-WH
120V~, 50/60 Hz
FAN SPEED CONTROL
*NEUTRAL WIRE REQUIRED
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
ZONE X INCHALMLV/ CFL/LED SCREW-IN
HQRA-6CL-WH
120V~, 50/60 Hz
INCHALMLV/CFL/LED RF DIMMER
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
ZONE X INCHALMLV/ELV
HQRA-6NA-WH
120V~, 50/60 Hz
PHASE ADAPTIVE RF DIMMER
*NEUTRAL WIRE REQUIRED
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
ZONE X NON-DIM
HQRA-6S-DV-WH
120-277V~, 50/60 Hz
RF SWITCH
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD

TYPICAL WIRELESS SEETOUCH KEYPADS - ARCHITECTURAL STYLE
(OTHER BUTTON CONFIGURATIONS AND FINISHES AVAILABLE. SEE SPEC SHEET FOR MODEL NUMBERS)
ZONE X INCHALMLV/ CFL/LED SCREW-IN
HQRA-W6BRL-WH
6-BUTTON
RF ARCHITECTURAL KEYPAD WITH RAISE/LOWER
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
HQRA-W6BRL-WH
120V~, 50/60 Hz
RF HYBRID KEYPAD
5 BUTTON WITH RAISE/LOWER & 450W/450VA INCHALMLV OR 100W CFL/LED NEUTRAL-WIRE DIMMER
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
ZONE X INCHALMLV
HQRA-H5BRL-WH
120V~, 50/60 Hz
RF HYBRID KEYPAD
5 BUTTON WITH RAISE/LOWER 450W NEUTRAL OPTIONAL DIMMER
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD

TYPICAL WIRELESS LOCAL CONTROLS - DESIGNER STYLE
(OTHER CONTROL TYPES AND FINISHES AVAILABLE. SEE SPEC SHEET FOR MODEL NUMBERS)
ZONE X CEILING FAN
HQRD-2ANF-WH
120V~, 50/60 Hz
FAN SPEED CONTROL
*NEUTRAL WIRE REQUIRED
SHOWN WITH WALLPLATE: CW-1-WH
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
ZONE X INCHALMLV/ CFL/LED SCREW-IN
HQRD-6CL-WH
120V~, 50/60 Hz
INCHALMLV/CFL/LED RF DIMMER
SHOWN WITH WALLPLATE: CW-1-WH
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
ZONE X INCHALMLV/ELV
HQRD-6NA-WH
120V~, 50/60 Hz
PHASE ADAPTIVE RF DIMMER
*NEUTRAL WIRE REQUIRED
SHOWN WITH WALLPLATE: CW-1-WH
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
ZONE X NON-DIM
HQRD-6S-DV-WH
120-277V~, 50/60 Hz
RF SWITCH
SHOWN WITH WALLPLATE: CW-1-WH
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD

TYPICAL WIRELESS SEETOUCH KEYPADS - DESIGNER STYLE
(OTHER BUTTON CONFIGURATIONS AND FINISHES AVAILABLE. SEE SPEC SHEET FOR MODEL NUMBERS)
ZONE X INCHALMLV/ CFL/LED SCREW-IN
HQRD-W6BRL-WH
6-BUTTON RF DESIGNER KEYPAD WITH RAISE/LOWER
SHOWN WITH WALLPLATE: CW-1-WH
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
HQRD-W6BRL-WH
120V~, 50/60 Hz
RF HYBRID KEYPAD
5 BUTTON WITH RAISE/LOWER & 450W/450VA INCHALMLV OR 100W CFL/LED NEUTRAL-WIRE DIMMER
SHOWN WITH WALLPLATE: CW-1-WH
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
ZONE X INCHALMLV
HQRD-H5BRL-WH
120V~, 50/60 Hz
RF HYBRID KEYPAD
5 BUTTON WITH RAISE/LOWER 450W NEUTRAL OPTIONAL DIMMER SHOWN WITH WALLPLATE: CW-1-WH
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD

TYPICAL WIRELESS COMPANION DEVICES
(OTHER FINISHES AND 277V MODELS AVAILABLE. SEE SPEC SHEET FOR MODEL NUMBERS)
HQA-RD-WH
120V~, 50/60 Hz
REMOTE DIMMER
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
HQA-RS-WH
120V~, 50/60 Hz
REMOTE SWITCH
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
HQD-RD-WH
120V~, 50/60 Hz
REMOTE DIMMER
SHOWN WITH WALLPLATE: CW-1-WH
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
HQD-RS-WH
120V~, 50/60 Hz
REMOTE SWITCH
SHOWN WITH WALLPLATE: CW-1-WH
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD

TYPICAL GRAFIK T LOCAL CONTROLS AND HYBRID KEYPAD
(OTHER BUTTON CONFIGURATIONS AND FINISHES AVAILABLE. SEE SPEC SHEETS FOR MODEL NUMBERS)
ZONE X INCHALMLV/ CFL/LED SCREW-IN
HQRT-QSWLW
120V~, 50/60 Hz, RF GRAFIK T LOCAL DIMMER CONTROLS INCHALMLV/ELV/LED/LUTRON 2-WIRE LOADS
LWT-G-WH
1-GANG GRAFIK T FACEPLATE
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
ZONE X INCHALMLV/ ELV/LED SCREW-IN
HQRT-QSNEW
120V~, 50/60 Hz, RF GRAFIK T LOCAL DIMMER CONTROLS INCHALMLV/ELV/LED/LUTRON 2-WIRE LOADS
LWT-G-WH
1-GANG GRAFIK T FACEPLATE
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
ZONE X NON-DIM
HQRT-QSNDSW
120V~, 50/60 Hz, RF GRAFIK T LOCAL SWITCH 5A LIGHTING, 3A FAN, 1/3 HP MOTOR
LWT-G-WH
1-GANG GRAFIK T FACEPLATE
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
HQT-QROW
120V~, 50/60 Hz
GRAFIK T COMPANION DEVICE
LWT-G-WH
1-GANG GRAFIK T FACEPLATE
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD
ZONE X INCHALMLV/ CFL/LED SCREW-IN
HQRT-TCHRB
120V~, 50/60 Hz
GRAFIK T CL HYBRID 8 BUTTON KEYPAD
LWT-G-WH
1-GANG GRAFIK T FACEPLATE
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD

TYPICAL WIRELESS SHADE EQUIPMENT
ARCHITECT AND/OR SHADE DEALER TO DETERMINE QUANTITY & LOCATIONS
120-240 V~ INPUT FEED
QSPS-10PNL
SIVOIA QS WIRELESS SMART PANEL
18"(H) X 10.86"(W) X 4.16"(D)
(457mm X 276mm X 106mm)
LOCATION TBD
TO QS DEVICES AND/OR QS SHADES ONLY (UP TO 10)
SIVOIA QS WIRELESS EDU
WIRELESS ELECTRONIC DRIVE UNIT
LOCATION TBD
SIVOIA QS WIRELESS
DESIGNER ROMAN ELECTRONIC DRIVE UNIT (TYP. OF UP TO 10)
LOCATION TBD
SIVOIA QS WIRELESS
QUIET DRAPERY TRACK SYSTEM
LOCATION TBD

TYPICAL WIRELESS CONTROL MODULES
LMJ-ST-DV-B
RF DIMMING MODULE
120/277V~, 50/60 Hz
W/ 0-10 V CONTROL
3.42"(H) X 2.82"(W) X 1.25"(D)
(87mm X 72mm X 32mm)
LOCATION TBD
LMJ-16R-DV-B
RF RELAY MODULE
120/277V~, 50/60 Hz
W/ (1) 16A 30A SOFTSWITCH RELAY
3.42"(H) X 2.82"(W) X 1.25"(D)
(87mm X 72mm X 32mm)
LOCATION TBD
LMJ-CCO1-24-B
RF CCO MODULE
W/ (1) CONTACT CLOSURE OUTPUT
3.42"(H) X 2.82"(W) X 1.25"(D)
(87mm X 72mm X 32mm)
LOCATION TBD

TYPICAL WIRELESS TEMPERATURE CONTROLS
LR-HVAC-1-WH
LUTRON COMFORT CONTROLS HVAC CONTROLLER
5.25"(H) X 4.25"(W) X 1.06"(D)
(133mm X 108mm X 27mm)
LOCATION TBD
LR-TEMP-FLSH
LUTRON COMFORT CONTROLS WIRED, FLUSH MOUNT, TEMPERATURE SENSOR
0.75"(DIA.), 0.75"(L)
(19mm, 19mm)
LOCATION TBD
LRF2-TWRB