Datasheet

Stock#	Description					
6BUT-CONT-TP-AS	6-Button Wall Controller					

Description

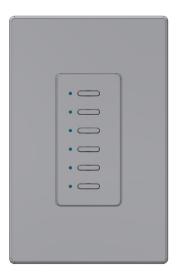
The 6-button Wall Controller provides an incredible lighting experience. It is designed to work seamlessly with SPICEbox™ and is effortless to customize. The users can customize the button functions to manage any NuSPICE™ load (fixture) with scenes and fade times through management software. This means that every user can enjoy optimal lighting experiences every time and easy programming through the NuPAC software.

With its seamless integration with NuLEDs PoE lighting system, users can experience the ease of smooth dimming to less than 1% while creating personalized lighting scenes. This innovative solution offers a more comfortable and tailored environment for any space. It provides customizable lighting scenes that cater to individual preferences and needs.

The system also allows for the effortless integration of various sensors, including ALS and PIR sensors, making it a valuable addition to any lighting system. It can be easily installed with our plug-and-play CAT5 cables.

The 6-button Wall Controller is designed with dedicated buttons, making it incredibly easy for users to adjust lighting levels or activate pre-set scenes. Additionally, it has precise dimming capabilities that help optimize energy usage. Users can set lighting levels at the perfect intensity for their task or ambiance, reducing unnecessary energy consumption and making our system eco-friendly.

Overall, the 6-button wall controller is the ultimate device for managing lighting environments. It offers endless possibilities with smooth dimming, customizable scenes, precise control, energy efficiency, seamless integration, and scalability.



Features

- Optimized Energy Efficiency: The controller's precise dimming capabilities optimize energy usage by allowing users to set appropriate lighting levels, reducing consumption.
- Easy to Install and Manage: Effortless powering the system through Cat5 cables
- Seamless Integration: Integration with NuLEDs PoE lighting ensures seamless communication and can include sensors like ALS and PIR.
- Customization and Personalization: Allow personalized lighting scenes, contributing to a comfortable environment.

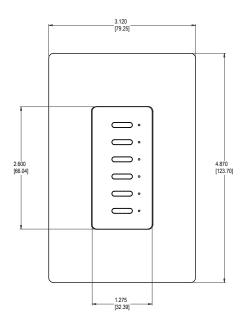


Datasheet

Specifications

	Equipment Kit					
6-Button Wall Controller, Installation Guide						
Hardware						
Standby Power	<1 Watt					
Power Supply	SPICEbox™ PoE					
Input Power	NuLINK™ Bus					
Input Voltage	5VDC					
RJ45 Ports	2 X RJ45 ports connecting to SPICEbox™ (Only need to plug-in one)					
Protocols	NuSPICE™, CoAP					
Continuous Load	22AWG Conductor Cable					
Maximum Wiring Length	50 ft. low baud rate and no terminations					
Mechanical						
Dimensions (L X W)	4.87 in. (123.7 mm) x 3.12 in. (79.25 mm)					
Weight	27 gm.					
Mounting	NOTE: Mounting hardware not supplied. Wall mounted with screws and wall anchors or industry standard low voltage ring or mud ring.					
Dimming	Programmable with NuSPICE™					
	Environmental					
Operating Temperature	32° to 104°F (0° to 40°C) ambient					
Humidity	10-80% Non-Condensing					
Agency Listings and Compliance						
UL Listed UL60950-1 (As SPICebox™ accessory)						
FCC Class A Compliant						
CE Compliant						
RoHS						

Dimensions





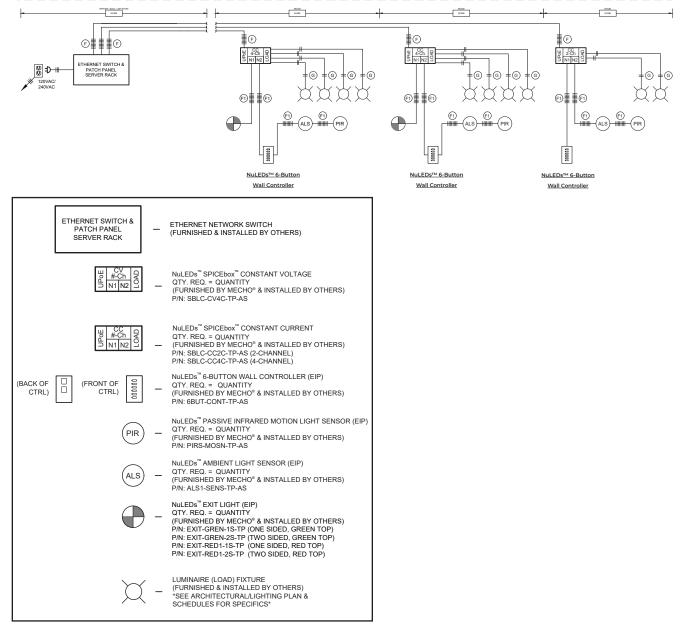
**** Warning

- Caution Observe precautions for handling electrostatic sensitive devices.
- \bullet Case to the $\mathsf{SPICEbox}^\mathsf{TM}$ should not be earth grounded.
- Do not use outdoors.
- Warning Risk of Electric Shock. Do not handle energized module with wet hands or when standing on wet or damp surfaces.
- Use only with Class 2 Power Unit 60VDC maximum.
- Conforms to CE, FCC standards
- Warranty Voided if device has been modified from its original configuration.



Datasheet

NuLINK™ Network Wiring Diagram - Constant Current



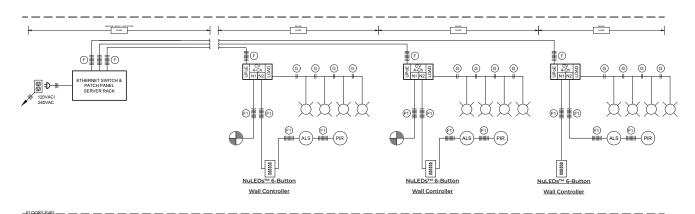
NOTE: Refer to page 9 for the Low Voltage Cable Legend and Crimping Instructions.

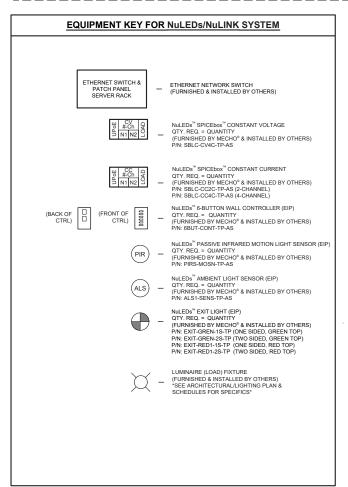


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Datasheet

NuLINK™ Network Wiring Diagram - Constant Voltage





NOTE: Refer to page 9 for the Low Voltage Cable Legend and Crimping Instructions.

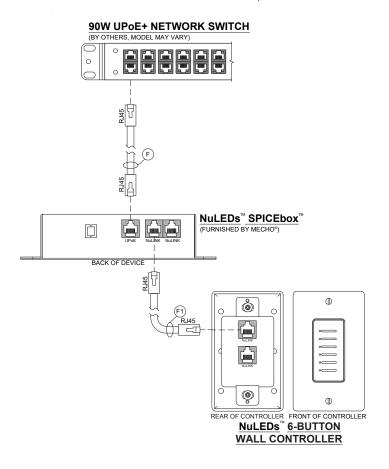


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Datasheet

Point-to-Point Diagram - 6-Button Wall Controller PoE Integration & NuLINK™ Network

NOTE: Only one 6-Button Wall Controller can be connected per SPICEbox™.

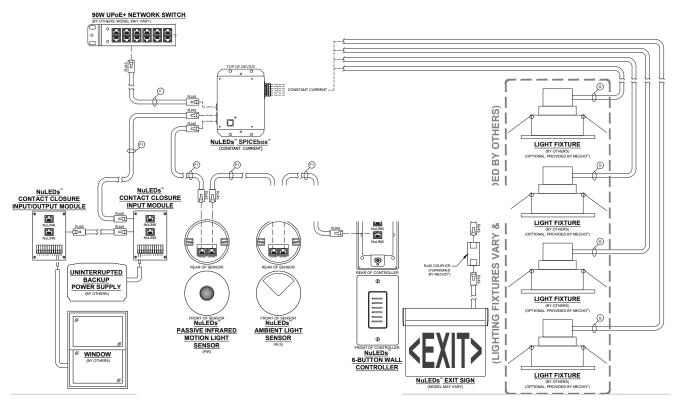


NOTE: Refer to page 9 for the Low Voltage Cable Legend and Crimping Instructions.



Datasheet

Point-to-Point Diagram

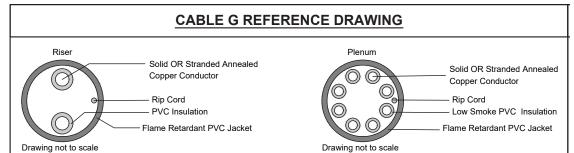


NOTE: Refer to page 9 for the Low Voltage Cable Legend and Crimping Instructions.



Datasheet

Cable Reference Drawing



PERFORMANCE COMPLIANCE:

NRTL PROGRAMS:

NEC ARTICLE 725 NEC ARTICLE 800 **NEC ARTICLE 760**

UL®13 CL3R/CL3P

UL 444 CMR/CMP* UL 1424 FPLR/FPLP UL 1666

CALIFORNIA STATE FIRE MARSHALL RoHS-COMPLIANT/RoHS 2-COMPLIANT

UL LISTED CL3R, CMR, FPLR UL LISTEN CL3P, CMP, FPLP

SPECIFICATIONS:

CONDUCTOR COUNT: 2 THRU 12 CONDUCTORS

FULLY ANNEALED, SOLID OR STRANGED BARE COPPER CONDUCTOR:

AWG (mm): 18 (1.16)

INSULATION: LOW SMOKE PVC

INSULATION COLORS: CONDUCTOR 1: BLACK

CONDUCTOR 2: RED CONDUCTOR 3: WHITE CONDUCTOR 4: GREEN CONDUCTOR 5: BROWN CONDUCTOR 6: BLUE CONDUCTOR 7: ORANGE **CONDUCTOR 8: YELLOW** CONDUCTOR 9: VIOLET CONDUCTOR 10: GRAY CONDUCTOR 11: PINK

CONDUCTOR 12: TAN JACKET: RISER: GRAY, FLAME RETARDANT (FR) PVC

PLENUM: WHITE, LOW SMOKE PVC

BLACK, RIBBED, PLASTIC RECYCLABLE SPOOL, PACKAGE:

REEL-IN-A-BOX OR WOOD REEL

Part Numbers and Physical Characteristics:

Listing	Part Number¹	Conductor Count	AWG (mm)	Conductor Type	Jacket Color ²	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)
CL3R/CMR/FPLR	2F-C1x-31	2	18 (1.16)	7 x 26 AWG	GRAY	0.16 (4.1)	17 (25)
CL3R/CMR/FPLR	2F-C2x-31	3	18 (1.16)	7 x 26 AWG	GRAY	0.17 (4.3)	22 (9)
CL3R/CMR/FPLR	2F-C3x-31	4	18 (1.16)	7 x 26 AWG	GRAY	0.19 (4.8)	30 (45)
CL3R/CMR/FPLR	2F-C4x-31	6	18 (1.16)	7 x 26 AWG	GRAY	0.23 (5.8)	43 (64)
CL3R/CMR/FPLR	2F-C5x-31	8	18 (1.16)	7 x 26 AWG	GRAY	0.25 (6.4)	56 (83)
CL3R/CMR/FPLR	2F-C7x-31	12	18 (1.16)	7 x 26 AWG	GRAY	0.30 (7.6)	83 (124)
CL3P/CMP/FPLP	2F-C1x-43	2	18 (1.16)	7 x 26 AWG	WHITE	0.16 (4.1)	17 (25)
CL3P/CMP/FPLP	2F-C2x-43	3	18 (1.16)	7 x 26 AWG	WHITE	0.17 (4.3)	22 (9)
CL3P/CMP/FPLP	2F-C3x-43	4	18 (1.16)	7 x 26 AWG	WHITE	0.19 (4.8)	30 (45)
CL3P/CMP/FPLP	2F-C4x-43	6	18 (1.16)	7 x 26 AWG	WHITE	0.23 (5.8)	44 (65)
CL3P/CMP/FPLP	2F-C5x-43	8	18 (1.16)	7 x 26 AWG	WHITE	0.25 (6.4)	57 (85)
CL3P/CMP/FPLP	2F-C7x-43	12	18 (1.16)	7 x 26 AWG	WHITE	0.30 (7.6)	85 (126)

Packaging Options:

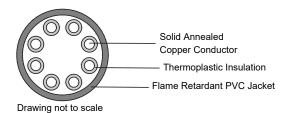
	Plastic Spool		Reel-in	-а-Вох	Wood Reel	Shrink Wrap	
	1,000'	500'	1,000'	500'	1,000'	250'	500'
¹Replace "x" with:	2	3	4	5	6	7	8



Datasheet

Cable Reference Drawing

CABLE F REFERENCE DRAWING



SUPERIOR ESSEX (www.superioressex.com)

PART No. PW52-H46-X5 (NON-PLENUM) & PW52-H46-X8 (PLENUM)

SPECIFICATIONS (SOLID): CATEGORY 5E+

PAIR COUNT:

CONDUCTOR: SOLID ANNEALED COPPER

AWG (mm): 22 (0.51)

INSULATION: CMR: PÓLYOLEFIN

CMP: FEP

INSULATION COLORS: PAIR 1: COLORTIP LIGHT BLUE, BLUE

PAIR 2: COLORTIP LIGHT ORANGE, ORANGE PAIR 3: COLORTIP LIGHT GREEN, GREEN PAIR 4: COLORTIP LIGHT BROWN, BROWN CMR: FLAME RETARDANT (FR) PVC

JACKET: CMP: FR, LOW SMOKE PVC

100 ± 15 CHARACTERISTIC IMPEDANCE Ohms: CMR: 71 CMP: 74 NOMINAL VELOCITY OF PROPAGATION %:

PERFORMANCE COMPLIANCE: UL 444

CSA C22.2 No. 214-08

UL 1666 NFPA 262 ANSI/TIA-568-C.2

ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70) HDBaseT Class A and B

NRTL PROGRAMS: UL Verified CAT 5e

UL, c(UL) Listed CMR UL, c(UL) Listed CMP HDBaseT Certified UL Certified EPD

SUSTAINABILITY: HPD

USGBC® Member

RoHS-compliant/RoHS 2-compliant

REACH-compliant

Temperature cable rating: 75°C for CMR and 90°C for CMP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	PW52-H46-x5	0.23 (4.6)	28 (25)	1,000 ft BrakeBox®	12
CMR	PW52-H72-x5	0.23 (4.6)	28 (25)	1,000 ft Plywood Reel	16
CMP	PW52-H46-x8	0.23 (4.8)	37 (28)	1,000 ft BrakeBox	12
CMP	PW52-H72-x8	0.23 (4.8)	37 (28)	1,000 ft Plywood Reel	16

JACKET COLORS

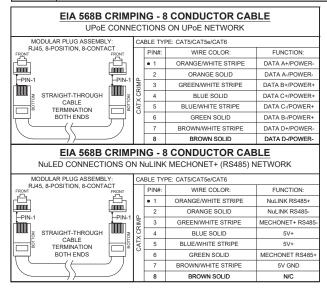
¹Replace "x" with: Blue = 2		Gray = 3		White = 4		Green = 5		
Yellow = 6	Р	urple = 7		Red = 9	В	lack = E		,



Datasheet

Low Voltage Cable Legend and Crimping Instructions

LOW VOLTAGE CABLE LEGEND - EIA568B NOTES: PARALLEL WIRING TO NEXT DEVICE PER BRANCH CIRCUIT CAPACITY, ALL CONNECTION MUST MEET NATIONAL AND LOCAL CODES AND REGULATIONS. ADDRESS SCHEDULES REQUIRED ADDRESS SCHEDULES REQUIRED. MAXIMUM VOLTAGE FOR ALL UNMARKED CABLE IS 43.5 VDC. LOW VOLTAGE CABLES SHOULD NOT BE ROUTED NEAR POWER LINES OR ELECTRICAL DEVICES SUCH AS LIGHTING BALLASTS, DIMMERS AND LED DRIVERS THAT MAY EXPOSE THE SYSTEM TO EXCESSIVE ELECTRICAL NOISE. CAT5E+ - CABLE FOR UPOE NETWORK WIRING CONNECTIONS 22AWG 4UTP (8-CONDUCTOR SOLID UNSHIELDED TWISTED PAIR) RJ-45 MODULAR PLUG CRIMPED (EIA568B) ON BOTH ENDS RECOMMENDED: SUPERIOR ESSEX (WWW.SUPERIORESSEX.COM) PART NO. PW52-H46-X5 (NON-PLENUM) & PW52-H46-X8 (PLENUM) OR COMPATIBLE CABLE (F) DISTANCE LIMITATION: 328'. MAX. NODES: 1 SEE "CABLE F REFERENCE DRAWING" FOR DETAILED SPECIFICATION. (FURNISHED & INSTALLED BY OTHERS) CAT5E+ - CABLE FOR NULINK NETWORK WIRING CONNECTIONS: SPECIFICATION: 22AWG 4UTP (8-CONDUCTOR SOLID UNSHIELDED TWISTED PAIR) RJ-45 MODULAR PLUG CRIMPED (EIA568B) ON BOTH ENDS TERMINATION: SUPERIOR ESSEX (WWW.SUPERIORESSEX.COM) PART NO.PW52-H46-X5 (NON-PLENUM) & PW52-H46-X8 (PLENUM) OR COMPATIBLE CABLE RECOMMENDED: (F1) DISTANCE LIMITATION: 50'. MAX. EIPS: 15 SEE CABLE "F" REFERENCE DRAWING FOR DETAILED SPECIFICATION. (FURNISHED & INSTALLED BY OTHERS) CABLE FOR SPICEBOX TO LIGHT (LOAD) FIXTURE WIRING CONNECTIONS: SPECIFICATION: 2 TO 12-CONDUCTOR, (18AWG UNSHIELDED) RECOMMENDED: SUPERIOR ESSEX (WWW.SUPERIORESSEX.COM. 1-800-551-8948) LISTING NO. CL3R/CMR/FPLR (NON-PLENUM), & CL3P/CMP/FPLP (PLENUM) (G) DISTANCE LIMITATION: VARIES PER LOAD. MAX. LOADS: VARIES BY WATTS SEE CABLE "G" REFERENCE DRAWING FOR DETAILED SPECIFICATION. (FURNISHED & INSTALLED BY OTHERS)



Warranty

Mecho's warranty ensures its products against defects in materials and workmanship for up to 25 years. The warranty timeline shall vary for different products. For complete warranty information, please visit https://www.mechoshade.com/warranty or contact your Mecho® Representative.

Technical support

Mecho

T: +1 (800) 327-9798 (Follow prompts for Mecho® & Tech Support)
E: techsupport@mechoshade.com

W: www.mechoshade.com

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