Stock#	Description
ALS1-SENS-TP-AS	Ambient Light Sensor

## Description

Ambient Light Sensor (ALS) is part of a versatile EIP (Environmental Interface Peripherals) family, and it accurately measures the room's lighting level by automatically adjusting its brightness. Through NuLEDs<sup>™</sup> PoE Integration, ALS offers efficient daylight harvesting that helps save on energy and cost. This sustainable option enhances occupant's comfort by seamlessly integrating with NuLEDs<sup>™</sup> intelligent lighting management systems.

Through NuLEDs<sup>™</sup> PoE lighting integration, artificial lights will automatically adjust their brightness level or switch off when ample natural light is available. This intelligent approach reduces unnecessary lighting and maximizes energy savings while providing nuanced control over lighting levels based on the amount of natural light present. The result is a consistently comfortable and well-lit environment, with minimal reliance on artificial lighting during daylight hours. This saves you money on energy bills and supports green building initiatives and certifications.

This incredible sensor seamlessly connects to SPICEbox<sup>™</sup> via its IP address, allowing users to easily manage NuSPICE<sup>™</sup> loads with customized light-level events, scenes, and fade times. Additionally, ALS can be personalized through user-friendly NuPAC and APPIO programming capabilities, taking the PoE lighting game to the next level.

Overall, ALS offers a cost-effective and sustainable lighting solution with fast and easy installation through CAT5 cable. It can positively impact occupant's mood, productivity, and overall well-being.



#### Features

- Optimized Energy Efficiency: Detects natural light levels and maximize energy savings by reducing artificial light usage during daylight hours.
- Sustainability and Green Building Compliance: Environment friendly product and adheres to green building standards by leveraging natural light by utilizing ALS for daylight harvesting
- Easy to Install and Manage: Powering the system through Cat5 cables is effortless, ensuring you can set up the system quickly and efficiently.
- **Customizable and Scalable:** Customizable lighting system that can be managed to meet maximum system performance requirements.



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#### Datasheet Specifications

Equipment Kit		
Ambient Light Sensor, Installation Guide		
Hardware		
Standby Power	0.5 Watts	
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	
Control Inter- face	NuLEDs™ NuPAC NuLEDs™ APPIO	
Wiring	CAT5e or CAT6 Ethernet Cable (328 ft. (100 m.)	
Maximum Wiring Length	50 ft. low baud rate and no terminations	
Mechanical		
Dimensions (L X W X D)	1.00 in. (25.40 mm) x 2.00 in. (50.80 mm) x 2.500 in. (63.50 mm)	
Weight	27 gm.	
Mounting	Wall or surface mounted. Cut-in 2.25" Hole with torsion springs.	
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		

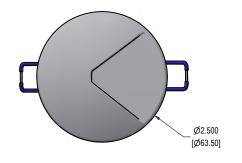
## 🕂 Warning

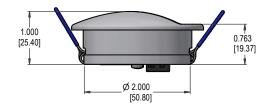
- **Caution** Observe precautions for handling electrostatic sensitive devices.
- Case to the SPICEbox<sup>™</sup> should not be earth grounded.
- Do not use outdoors.
- Warning Risk of Electric Shock. Do not handle energized module with wet hands or when standing on wet or damp surfaces.
- Use only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

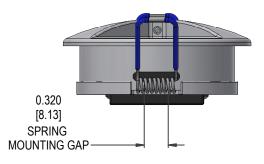
# Mounting and Dimensions1. Cut-in 2.25" Hole with torsion springs.

2. Mount it on a wall or flat-surface.

Caution: Please be aware that when mounting SPICEbox™ to metal surfaces or pockets, the gateway must be isolated from possible earth or building electrical grounding and other gateways.





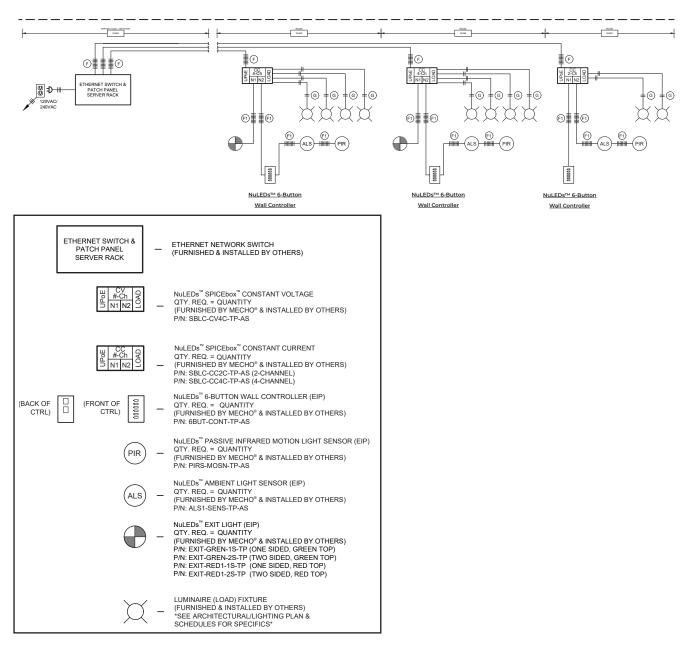




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Datasheet

### NuLINK<sup>™</sup> Network Wiring Diagram - Constant Current

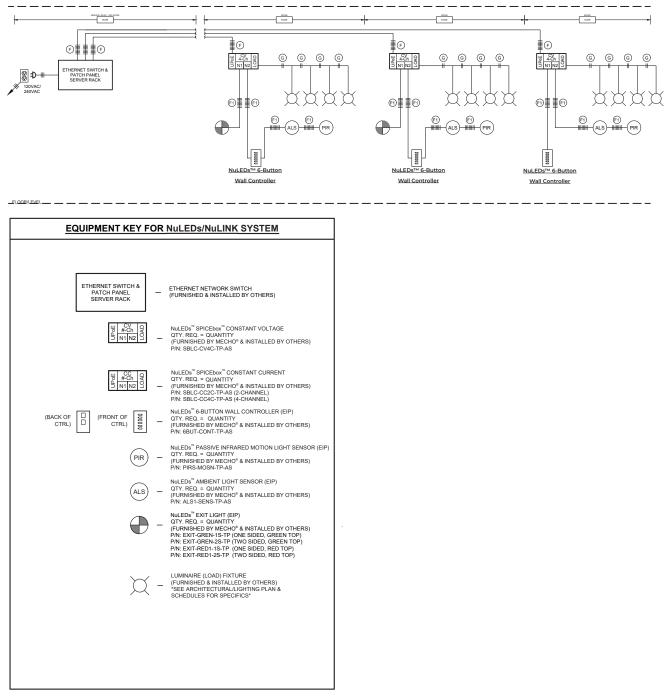


NOTE: Refer to page 9 for the Low Voltage Cable Legend and Crimping Instructions.



Datasheet

### NuLINK<sup>™</sup> Network Wiring Diagram - Constant Voltage

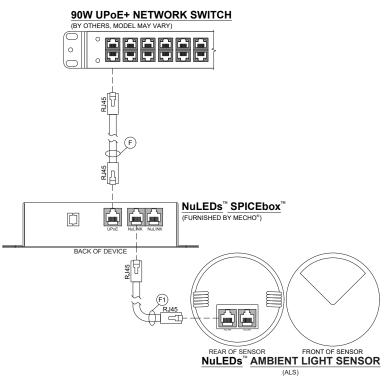


**NOTE:** Refer to page 9 for the Low Voltage Cable Legend and Crimping Instructions.



## Ambient Light Sensor Datasheet

Point-to-Point Diagram - ALS PoE Integration & NuLINK™ Network



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

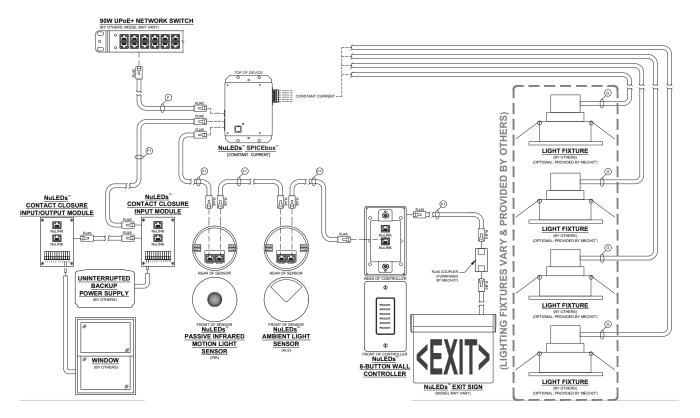


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## **Point-to-Point Diagram**



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

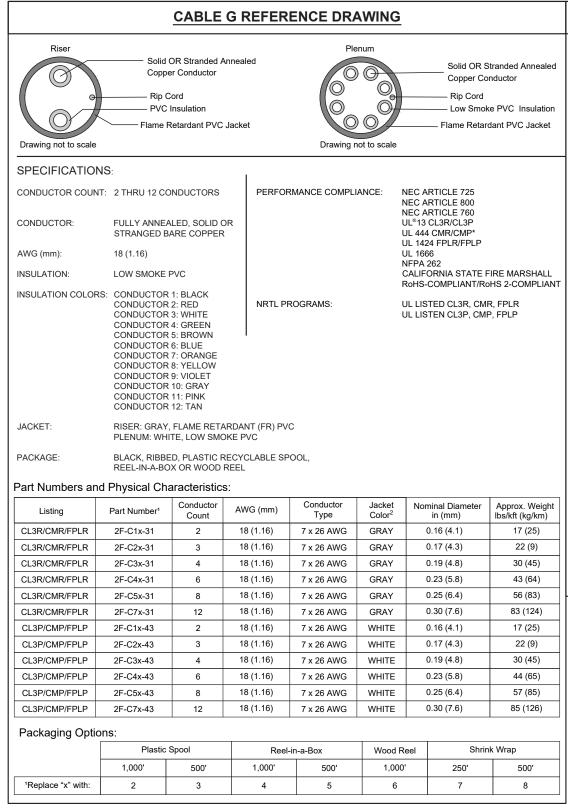


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#### Datasheet

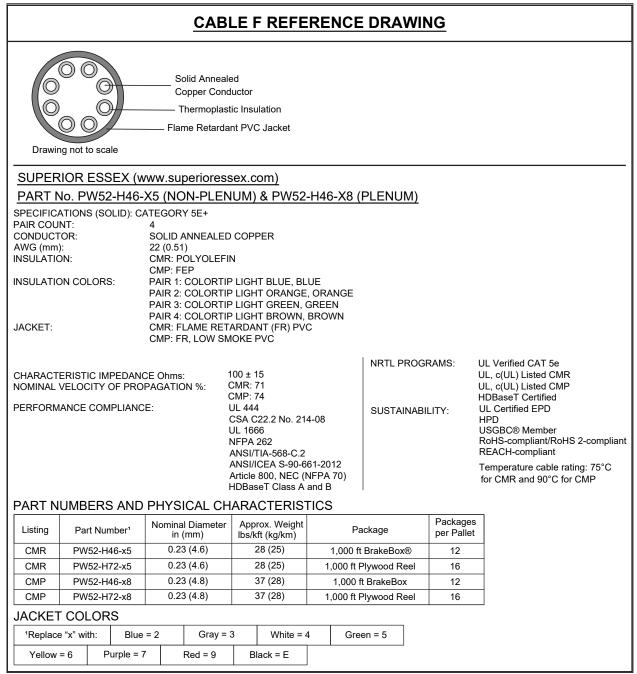
#### **Cable Reference Drawing**





#### Datasheet

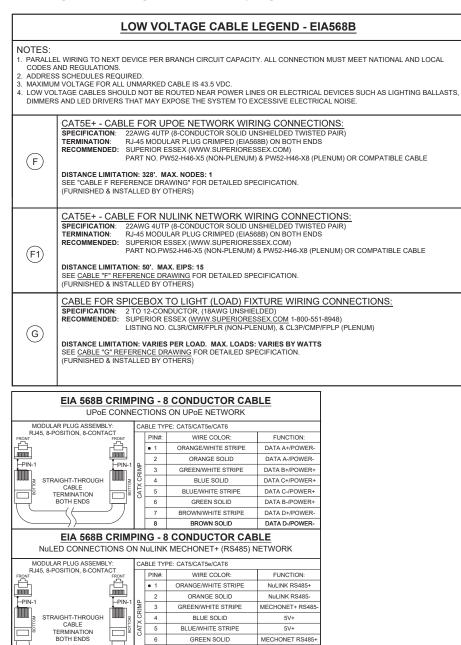
#### **Cable Reference Drawing**





#### Datasheet

#### Low Voltage Cable Legend and Crimping Instructions



#### 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 <u>https://www.mechoshade.com/warranty</u> or contact your Mecho® Representative.

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#### **Technical support**

#### Mecho

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