

INSPEXTOR

PRODUCT SPEC SHEET

MHTi-NODE-90-CV

The Inspextor platform is a **PoE Lighting Management System** providing building automation and data collection. PoE systems are safe and efficient low voltage platform.

FEATURES

- Fixture Agnostic up to 70 Watts - Internal or Optional Remote Mount
- Engineered to Respond to the MHTi - Peripheral Communication Network
- RS485 Protocol
- Automatic Network Discovery
- Ultra High Electrical Conversion Efficiency of 98%
- Supports Optional MHTi Battery Backup
- Features a Dimming Range of 1% to 100%
- Dual channel color tuning fixture support

GENERAL INFORMATION

Warranty 5 Year Limited Warranty (Covers Standard Components)

Finish White Powder Coating

Construction Sheet Metal

Certifications



NODE POWER INPUT CHARACTERISTICS

Input Voltage 40-60Vdc

Peak Operating Power 80W max

Nominal Standby Power 1.35W

PoE Input Connection Unshielded female RJ45 jack for CAT5e/6/6A cable to PoE PSE device.

Device Type Class 2 electrical device

NODE DRIVER CHARACTERISTICS

Output Channel Flexible power and control options are available for either up to eight individual fixtures using the MHTi-SPLT-1x4 splitter or for two-channel fixtures

Driver Design Common ground constant voltage LED driver design

Dimming Full range 1% to 100% dimming control in 1% increments via PWM or CVR (Constant Voltage Resolution)

Output Voltage Range 12-48Vdc for constant voltage

Rated Output Power Channel Output: 70 watts @ 48V,36V
Channel Output: 60 watts @ 24V
Channel Output: 40 watts @ 12V

Protection Each individual LED driver channel has current limit and short circuit protection

Connections Unshielded female RJ45 jack for CAT5e/6/6A cable to PoE PSE device.

NODE AUXILIARY DEVICE CHARACTERISTICS

Power Supply

Communication

Sensor Inputs

Connections

The MHTi-NODE-90-CV does not support RS485 or 0-10V Controls



Inspextor is a **PoE Lighting Management System** providing building automation and data collection. **Integrate:** connect your building's systems and technology in one easy-to-use software rather than trying to manage them all separately. **Monitor:** use the dashboard to monitor data collected on your building's energy usage, air quality, occupancy, and more. **Automate:** create automations that streamline your building's operations, work towards green building initiatives, and improve environments for your occupants.

MHT Technologies

Innovation Lab:

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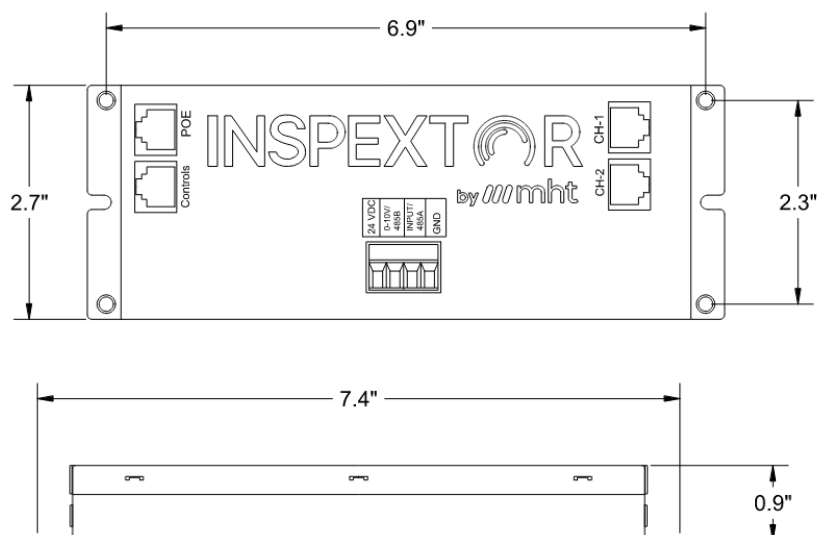
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www.mht-technologies.com



MHT Technologies, reserves the right to make any design changes for continuous improvement which will not affect the overall appearance or performance.

PRODUCT DIMENSION



MHTi-NODE-90-CV I/O Points

| I/O LABEL | Termination Type | Notes |
|----------------|------------------|---|
| 24VDC | Phoneix | Disabled |
| 0-10V/485B* | Phoneix | Disabled |
| INPUT/485A*,** | Phoneix | Disabled |
| GND | Phoneix | Disabled |
| CH-1 | RJ45 | Programmable for Constant Voltage Fixtures |
| CH-2 | RJ45 | Programmable for Constant Voltage Fixtures |
| CONTROLS | RJ45 | Programmable for MHT Approved Control Devices |

NODE CONTROL PORT CHARACTERISTICS

| | |
|---------------|---|
| Power Supply | 24Vdc/0.5Amps for powering external sensors |
| Sensor Inputs | 0-24V/RS485 |
| Connections | <i>MHTi-RJM-3WIRE</i> and <i>MHTi-RJF-3WIRE</i> adapter enables universal connections (24VDC, Trigger, GND) to Control Devices. |

NODE DIMENSIONAL DATA

| | |
|-----------------|--|
| Node Dimensions | 7.303" (185.5mm) L x 2.755" (70mm) W x 0.846" (21.5mm) K |
| Mounting | 4 Mounting holes: 6.948" (176.5mm) L x 2.125" (54mm) W |
| Origin | Made in USA |

NODE ENVIRONMENTAL REQUIREMENTS

| | |
|-----------------------|------------------------------|
| Operating Temperature | -20°C to 50°C |
| Operating Humidity | 10% to 80% RH non-condensing |
| Storage Temperature | -20°C to 85°C |
| Storage Humidity | 5% to 95% RH non-condensing |



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