Part #: | Date: | Project:


# NXL-BMS

## BACNET PROTOCOL CONVERSION PANEL

# OVERVIEW

The NexLight® NXL-BMS accessory panel provides protocol conversion from the native Modbus TCP/IP of the NexLight System to BACnet protocol for integration into a Building Management Systems. The BACnet system can then connect either via Ethernet to an available port on the supplied unmanaged ethernet switch or via RTU connection on the BMS protocol converter in the NXL-BMS panel. The Building Management Integrator can easily set the communication of the device to match their BMS network and Map the NexLight System Points using the supplied points list. This panel includes a Surface Mount NEMA/Type 1 Enclosure with a hinged cover secured by a robust locking mechanism that includes (2) keys.

## FEATURES

- **Nema/Type 1 Enclosure**
- **Simple BMS Integration using BACnet Protocol**
- **Solution for any R Series, D Series, or Custom Main Panel**
- **Allows Building Management to override any point on the NexLight System including dimming levels of dimmed loads.**

## SPECIFICATIONS

### Physical

| | |
|---|---|
| NEMA/Type: | 1 (3R available, add -3R to part number) |
| Mounting: | Surface Mount (suitable for Plenum Mount) |
| Operating Temperature: | 14° to 113°F (-10°C to 45°C) |

### Electrical (Control Wiring)

| | |
|---|---|
| Input Signal: | 24VAC, Class II |

### FieldServer

| | |
|---|---|
| Serial: | Galvanic Isolation<br>1 RS-485/RS-232 & 1 RS-485 |
| Serial Baud Rates: | 9600, 19200, 34800, 57600, 76800, 115000 |
| Ethernet: | 10/100BaseT, MDIX, DHCP |
| Approvals: | CE, FCC Class B & C Part 15<br>UL 60950<br>IC Canada<br>RoHS and WEEE compliant<br>PTCRB and CTIA |

### Ethernet Switch (Unmanaged)

| | |
|---|---|
| Number of Ports: | 5 RJ45 |
| Transmission Speed: | 10/100 Mbps |
| Signal LEDs: | Data receive, link status |
| Supply Voltage: | 24 VDC / 24 VAC (50/60 Hz) |

## ADDITIONAL PANELS

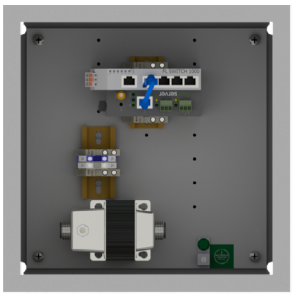
**See individual accessory specification sheet for more information

| | |
|---|---|
| NXL-R Series | NexLight R Series Relay Panels |
| NXL-D Series | NexLight D Series Dimming Panels |
| NXL-RC Series | NexLight RC Series Room Control Panels |
| NXL-OPC: | Outdoor Photocell Integration Panel, Remote Mounting (8"H x 8"W x 4"D) |
| NXL-00P5: | Dimming Expansion, (8) Channels of 0-10 Dimming (100mA Sinking per Channel) (8"H x 8"W x 4"D) |
| NXL-AVI: | A/V Integration, (8) Dry Contact Inputs (8"H x 8"W x 4"D) |
| NXL-AMP: | Amplifier Panel for NexLight Data Bus, Supports an additional 485 mA of system devices (12"H x 12"W x 6"D) |

**NexLight, Inc.** | 7877 College Road, Suite 105, Baxter, MN 56425
218-828-3700 | www.nexlight.com


Five-Year Limited Warranty.

## NXL-BMS



## Included Components

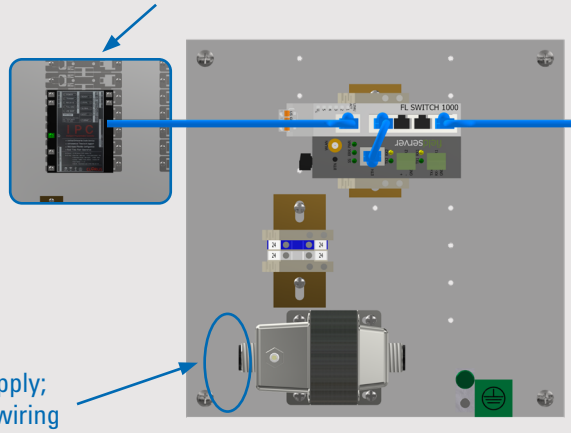
1 SMBC BACnet Converter
1 5 Port Ethernet Switch, Unmanaged
1 TR-5024 Transformer
1 TB-1-2 Terminal Block Assembly
1 PA-120-1 Panel Assembly

## Physical Specifications

| | |
|---|---|
| NEMA/Type: | 1 |
| Mounting: | Surface Mount |
| Dimensions: | 12.00"H x 12.00"W x 6.00"D |
| Weight: | 15 lbs 12.8 oz |
| Addresses Available: | N/A |
| Addresses Used: | N/A |
| mA Available: | N/A |
| mA Draw: | N/A |
| Operating Temperature: | 14° to 113°F (-10°C to 45°C) |

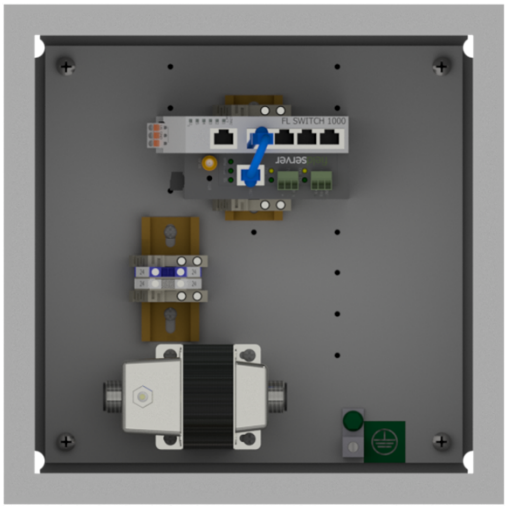
## WIRING DIAGRAM

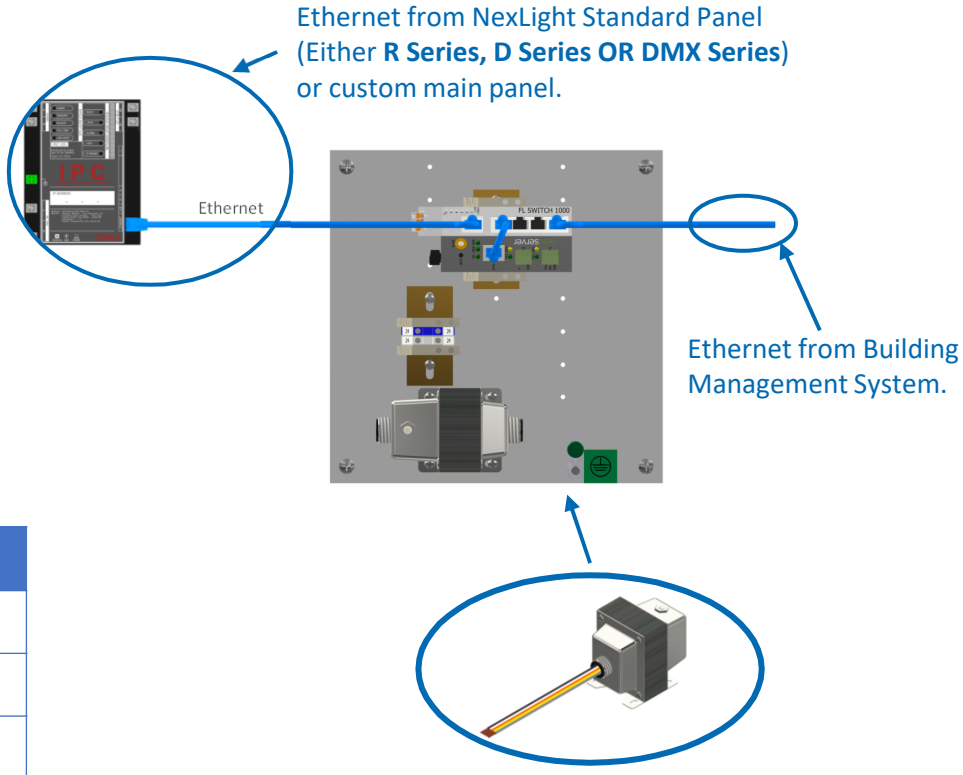
| Description | Wire Color |
|---|---|
| Neutral | Black |
| 120 VAC | White |
| 240 VAC | Orange |
| 277 VAC | Yellow |
| 480 VAC | Gray |



# NXL-BMS

**BACnet PROTOCOL CONVERSION PANEL**






| Description | Wire Color |
|---|---|
| Neutral | Black |
| 120VAC | White |
| 240VAC | Orange |
| 277VAC | Yellow |
| 480VAC | Gray |

## APPLICATION OVERVIEW

**As a standard, all NexLight lighting control panels utilizing the IPC or SPC controller include native Modbus TCP/IP support. If you require BACnet protocol for integrating into your Building Management System, the NXL-BMS is the accessory panel you need. To implement this solution, the installer simply needs to supply power to the included Transformer, connect the main NexLight panel to an available port on the included ethernet switch in the NXL-BMS panel via Ethernet (CAT5E or greater). The BACnet system can then connect either via Ethernet to another available port on the ethernet switch or via RTU connection on the BMS protocol converter in the NXL-BMS panel. The only remaining task is for the Building Management Integrator to set the communication of the device to match their BMS network and Map the NexLight System Points using the supplied points list.**

## APPLICATION HIGHLIGHTS

- **Simple BMS integration using BACnet Protocol.**
- **Solution for any R Series, D Series, DMX Series or a Custom Main Panel.**
- **Allows Building Management to override any point on the NexLight System including dimming levels of dimmed lighting loads.**