

IMPORTANT SAFEGUARDS
READ AND FOLLOW ALL SAFETY INSTRUCTIONS

PRECAUTIONS

Read and understand all instructions before beginning installation.

NOTICE: For installation by a licensed electrician in accordance with National and/or Local Electrical Codes and the following instructions.

Confirm device ratings are suitable for application prior to installation. Use of this device in applications beyond its specified ratings other than its intended use may cause an unsafe condition and will void manufacturer's warranty.

Use only approved materials and components (i.e. wire nuts, electrical box, etc.) as appropriate for installation.

NOTICE: DO NOT INSTALL IF PRODUCT APPEARS TO BE DAMAGED.

NOTICE: Do not use outdoors.

NOTICE: Do not use this equipment for other than its intended use.

SAVE THESE INSTRUCTIONS AND PROVIDE TO OWNER AFTER INSTALLATION IS COMPLETED

The NXNS Series 8-Port Network Switch is an unmanaged switch that can be used with the NX Lighting Control System to facilitate branching a single NX Network Segment into additional NX Network Segments.

FEATURES

Each RJ45 port automatically negotiates its data rate to 10 Mbps or 100 Mbps.

Note: NX Network Segments operate at 10 Mbps.

In addition to the switch's power LED, each port has one green LED showing connectivity (solid green) and link activity (blinking green).

The NXNS Network Switch works with the NX Power Supply, p/n NXPWRSPLY (not included – sold separately).

INSTALLATION

1. Mount the network switch in a dry location on DIN rail using the attached DIN rail clip.
2. Mount the power supply (sold separately) according to the power supply's mounting instructions. It is recommended to mount the power supply adjacent to the switch.
3. Wire power supply to switch according to wire diagram below.

BRANCHING A SINGLE NX NETWORK SEGMENT INTO ADDITIONAL NX NETWORK SEGMENTS

1. Connect a Cat5 or Cat6 patch cable from NX Site Manager's Port 2 (NX Network) OR from an NX Site Manager Adaptor's Port 2 (NX Network) to an open RJ45 port on the NXNS Network Switch.
2. Connect up to 7 NX Network Segments to any open RJ45 port on the NXNS Network Switch.
 - Note: If NXNS Network Switches will be networked together to create additional NX Network Segments, at least one RJ45 port on each switch needs to be available to network them together.
 - Note: No more than (3) NXNS switches are to be connected to a single NX Network.
 - Note: Each NX Network Segment is limited to a maximum of (24) NX Network Bridges and/or NXP2 Panels.

SPECIFICATIONS

CONSTRUCTION

- 8 x 10/100Mbps ports
- 6-Pin removable terminal block
- LED indicators
- IP50 metal case
- Size: 5.6"L x 4.1"W x 1.4"H (142mm x 105mm x 36.2mm)
- Weight: 5.7 oz. (160g)

MOUNTING

- DIN-rail mount
- Wall mount

ELECTRICAL

- Power:
 - Input 12 - 56V DC
 - Compatible power supply: NXP-WRSPY (sold separately)
 - Max. consumption: 3W @ 48V DC
- Removable Terminal Block:
 - Redundant power Inputs, 6-pin
 - Wire range: 0.34mm² to 2.5mm²
 - Solid wire (AWG): 12-24
 - Stranded wire (AWG): 12-24
 - Torque: 5 lb. - In / 0.5 Nm / 0.56 Nm
 - Wire strip length: 7-8mm
 - Alarm relay output: 24V DC, 1A
- Grounding point
- 6kV ESD protection
- 2kV surge protection

INSTALLATION

- No more than 3 switches on an NX network

PERFORMANCE¹

- Data Transfer Rate:
 - Ethernet: 10Mbps (half duplex), 20Mbps (full duplex)
 - Fast Ethernet: 100Mbps (half duplex), 200Mbps (full duplex)
- Data RAM Buffer: 56KB
- Switching Fabric: 1.6Gbps
- MAC Address Table: 1K entries
- Forwarding rate: 1.19Mpps (64-byte packet size)
- MTBF: 580,159 hours @ 77°F (25°C)

OPERATING ENVIRONMENT

- Operating Temperature: -40°F to 167°F (-40°C to 75°C)
- Operating Humidity: Max 95% non-condensing

STANDARDS

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x

CERTIFICATIONS

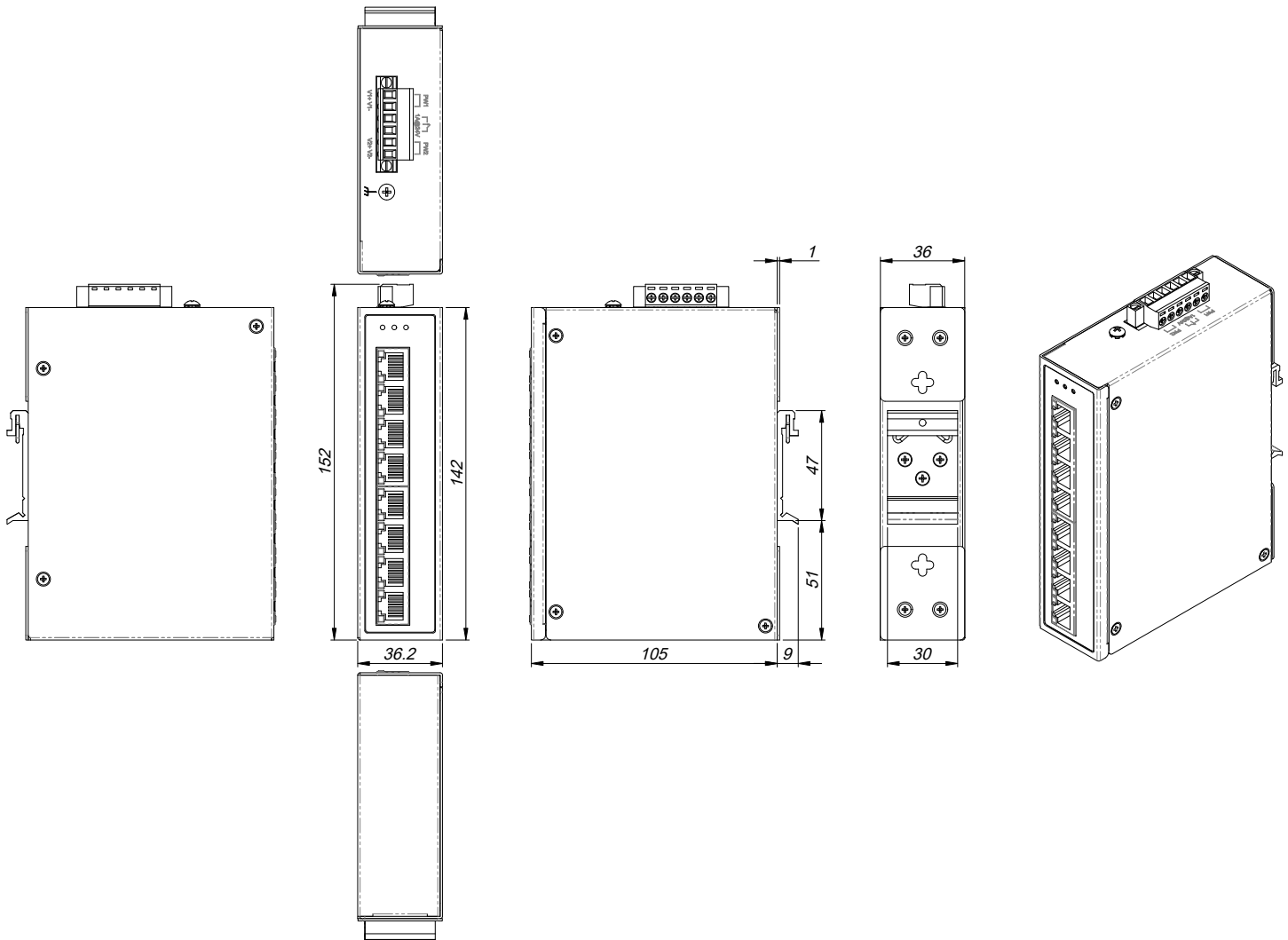
- CE
- FCC
- LVD
- Shock (IEC 60068-2-27)
- Freefall (IEC 60068-2-32)
- Vibration (IEC 60068-2-6)

- IEC 61000-4-2
- IEC 61000-4-4
- IEC 61000-4-5

WARRANTY

- 5-year limited warranty
- See website for additional information

DIMENSIONS



ADDITIONAL INFORMATION

LEDs

LED	Status	Description
PW1	Solid Green	Power is Detected
	Off	Power is Not Detected
PW2	Solid Green	Power is Detected
	Off	Power is Not Detected
RLY	Solid Amber	Connected only PW1 or PW2
	Off	Both PW1 and PW2 are connected and powered
LNK	Solid Green	Connected
	Blinking Green	Data Transmitting / Receiving
	Off	No Connection

WIRING DIAGRAMS

