

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

NXOADR2 SERIES

NX OpenADR 2.0 VEN MODULE

FEATURES

- CEC Certified to OpenADR 2.0a & 2.0b standards as a Virtual End Node (VEN)
- Allows for participation in Utility provided Demand Response programs
- Provides encrypted bi-directional communications with Open standard for Smart Grid compatibility
- Supports wired, wireless or hybrid NX lighting control deployments
- Intuitive user interface for easy configuration of OpenADR setting
- Includes relay module with two normally open/normally closed outputs



RELATED PRODUCTS

[NX Area Controller V2](#)

[NX Contact Closure Interface Module](#)

[NX Lighting Control Panels](#)

[NX Room Controllers](#)

[NX Fixture Module](#)

[NX Dry Contact Interface Module](#)

SPECIFICATIONS

CONSTRUCTION

- Design: Solid State – No moving parts
- CPU: Intel Celeron Quad Core @ 2.9GHz
- Memory: 8GB RAM
- Storage: 60GB
- Security: Trusted Platform Module (TPM) 2.0
- 1x Power Switch
- 4x USB 3.0 Ports
- 2x 4K HDMI Ports
- Size: 5.0”L x 3.0”W x 0.75”H
- Weight: 8 oz

ELECTRICAL

- Power Supply (Included)
 - Input: 120-240VAC; 50/60Hz; 0.6A Max
 - Output: +12VDC, 2.0A, 24W
 - Size: 2.5”L x 1.25”W x 1.75”H

NETWORK CONNECTIVITY/SECURITY

- WiFi 6
- Bluetooth 5.2
- 1x Gigabit Ethernet – Connects to owner-provided I/P Network; Supports DHCP
- Encryption: Traffic between VTN and VEN is protected using AES encryption

SYSTEM REQUIREMENTS

- The NX OpenADR VEN Module requires outbound Internet connection (https) to VTN server IP address.
- The NX OpenADR solution includes a relay module with (2) normally open/normally closed outputs. These outputs require connection to the NX Contact Closure Interface Module (p/n NXCI) – See Wiring Diagram.

OPERATION

- Encryption: Traffic between user and cloud The NX OpenADR VEN Module is a certified OpenADR 2.0a / 2.0b compliant Virtual End Node (VEN) that enables the NX Lighting Control System to participate in a bidirectional OpenADR 2.0 connection with a Utility Demand Response Automation Server (DRAS) to provide Automatic Demand Response with acknowledgements.
- Complies with California Title 24 110.12 energy code requirements.
- In response to a Demand Response signal from a VTN, The NX OpenADR solution automatically reduces general lighting subject to Demand Response by 15% or greater uniformly within a space. This is accomplished by the NX OpenADR module signaling the NXCI module to broadcasts to NX actuator devices in the space to execute a pre-programmed demand response level.

ORDERING GUIDE

Example: NXOADR2-VEN-DC

CATALOG #

NXOADR2-VEN-DC

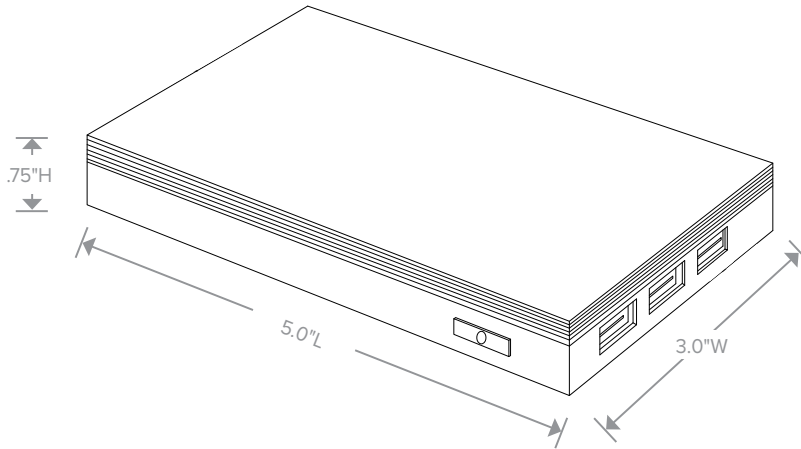
Model

NXOADR2-VEN-DC NX OpenADR 2.0a/2.0b Bidirectional Virtual End Node (VEN) Module with Two NO/NC Outputs

NXOADR2 SERIES

NX OpenADR 2.0 VEN MODULE

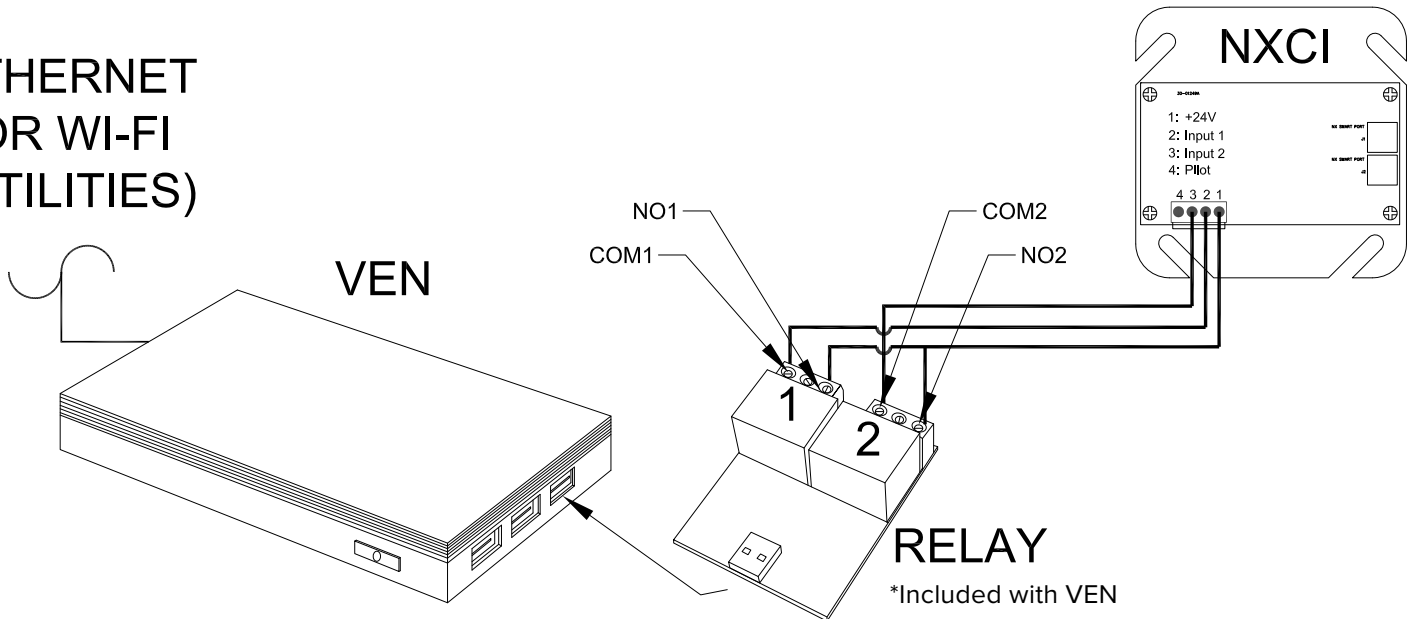
DIMENSIONS



ADDITIONAL INFORMATION

Wiring Diagrams

ETHERNET
OR WI-FI
(UTILITIES)



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ADDITIONAL INFORMATION

System Overview

