OVERVIEW
The nLight nPANEL 4 is targeted at rooms that require multiple relays be co-located in a cabinet enclosure. Utilizing four 30 Amp rated relays, the nPANEL 4 can switch up to four 120/277/347 VAC loads. Further, as a standard feature, the nPANEL 4 pairs a 0-10 VDC dimming output with each relay. This enables connected loads to be both switched and dimmed as necessary. Each of the nPANEL 4’s relay/dimming channels can be independently programmed; enabling custom multi-circuit control applications.

nLIGHT OPERATION
This panel is nLight-enabled, meaning it has the ability to directly communicate over an nLight network. When daisy-chain wired, using CAT-5e cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Functionally the nPANEL 4 operates as two devices (each with two relays/dimming outputs and a unique network serial number) that can be utilized together in a single zone or in separate zones. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software.

DEVICE SETTINGS
Several operation settings are available for assignment to each nPANEL relay/dimming pair independently.

Several special modes of operation can also be assigned to each relay/dimming pair that define the sequence of operation when connected with occupancy sensors or WallPods.

- Override (On/Off/Normal) Switch Tracking Channel (1-16)
- Occupancy Tracking (Enable/Disable) Occupancy Tracking Channel (1-16)
- Photocell Tracking (Enable/Disable) Photocell Tracking Channel (1-16)
- Switch Tracking (Enable/Disable) Invert Relay Logic (Enable/Disable)

Several special modes of operation can also be assigned to each relay/dimming pair that define the sequence of operation when connected with occupancy sensors or WallPods.

- Manual On to Auto Off (Semi-Auto) Auto to (Timed) Override On
- Manual to (Timed) Override On Predictive Off
- Automatic to (Timed) Override On Manual On to Full Auto

DEFAULT SETTINGS
- Relay/dimming output 1 => Switch Tracking Channel 1
- Relay/dimming output 2 => Switch Tracking Channel 2
- Relay/dimming output 3 => Switch Tracking Channel 3
- Relay/dimming output 4 => Switch Tracking Channel 4

All relay/dimming outputs => Occupancy Tracking Channel 1
All relay/dimming outputs => Photocell Tracking Channel 1
All relay/dimming outputs => Normal Operational Mode (Auto On/Auto Off)

EMERGENCY POWER APPLICATIONS
The nPANEL’s control board (nPANEL 4 CTRL) inside the nPANEL detects when line voltage has been lost to the unit’s transformer. When loss is detected, the nPANEL’s relays will close, thus making it perfect for controlling emergency lighting. Unpowered, the unit’s 0-10 VDC dimming outputs are released to full bright. If switching both primary and emergency circuits within the same cabinet is required, versions with pre-installed emergency barriers are available. See reverse for diagram showing emergency barrier names and locations.
INSTALLATION

- Remove lid screws and cabinet lid
- Mount cabinet using holes located in four inside corners of unit
- Connect non-switched power wires to power supply terminals and panel ground connection
- Connect wires of circuits to be switched to appropriate relay terminals
- Connect wires of dimming ballasts (0-10VDC only) or nLight devices to be powered via auxiliary power output
- Interconnect unit (via RJ-45 ports) with other nLight devices in lighting zone using CAT-5e cables (Note: middle two RJ-45s will be connected at factory with CAT-5e jumper. If application calls for separating nPANEL between two zones, this CAT-5e jumper must be removed.
- Once power is applied, all relays will cycle once. Connected devices in zone will then automatically begin functioning together according to each device’s defaults.
- Push-buttons on control board will toggle relays 1&2 and 3&4 respectively. (Note: relays are overridden on for 60 seconds)
- Restore lid and secure with lid screws

WARRANTY: Sensor Switch warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product.

LIMITATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch be liable for any incidental or consequential property damages or losses.