



PD 1096
THE NATIONAL
BUILDING CODE



ENERGY MANAGEMENT SOLUTIONS



sensor switch

An AcuityBrands Company



Sensor Switch is a leader in lighting control innovation, continuously developing technologies to enhance performance of our stand alone occupancy sensors to fully networked control solutions providing trusted quality and reliability to meet every applications.

LINE VOLTAGE SOLUTIONS

- VLP (Visible Light Programming)
- Miswire Protection (reversible line & load connections)
- Convertible Neutral
- Self-calibrating Daylight Controls
- Sensors contain line voltage switching relays
- Ideal for retrofit applications with concrete or inaccessible ceilings
- Compatible with LED's, electronic & magnetic ballast/driver
- Energy management equipment standard: UL916 (E167435)



Wall Mount Occupancy Sensor



Wall Mount Occupancy Sensor



Ceiling Mounted Occupancy Sensor



Fixture Mounted Occupancy Sensor



Override Switch



Wide View Occupancy Sensor

Model	WSX WH	WSX PDT 2P WH	CMR PDT 10	LSXR 4PK	SPOOMRD WH	WVR 16 WH
Description	Single Channel Line Voltage	Dual Channel (Ch1:Auto On / Ch2:Manual On) Line Voltage	Single Channel Extended Range Occupancy Sensor	High bay fixture mounted occupancy sensor with interchangeable lens	Dimming Switchpod (0-10 VDC) (on/off/dimming up/down)	Long Range Occupancy Sensor
Technology	PIR (Passive Infrared)	PDT (Passive Infrared + Microphonics)	PDT (Passive Infrared + Microphonics)	PIR (Passive Infrared)	Programmable Bypass switches	PIR (Passive Infrared)
Coverage	Small motion: 20ft (6.10m); 625 sq ft Large Motion: 36ft (10.97m); 2,025 sq ft	Small motion: 20ft (6.10m); 625 sq ft Large Motion: 36ft (10.97m); 2,025 sq ft	Large Motion: 28 ft (8.53m) Radius; 360deg	Large Motion: 15-50 ft (4.57-15.24 m) Radius; 360 deg	0-10VDC, Sinks <20mA for Dimming	Small motion: 40ft (12.19m) Large Motion: 70ft (21.34m)
Operating Voltage	1200W @ 120- 277VAC	1200W per channel 120- 277VAC	1200W @ 277VAC	1200W @ 120- 277VAC	120- 277VAC	120- 277VAC
Size	H 2.74" (6.96cm) W 1.68" (4.27cm) D 1.63" (4.14cm)	H 2.74" (6.96cm) W 1.68" (4.27cm) D 1.63" (4.14cm)	Dia. 4.55" (11.56cm) D: 1.55" (3.94cm)	H 3.75" (9.50cm) W 2.50" (6.40cm) D 4.00" (10.20cm)	H 2.74" (6.96cm) W 1.68" (4.27cm) D 1.63" (4.14cm)	H 3.0" (7.62cm) W 3.6" (9.14cm) D 1.75" (4.45cm)
Application	Open areas, hallway, stairs, small offices, storage rooms, powder rooms, closets/locker room	Confined areas, offices, conference rooms, meeting rooms, Rest room (CR), VIP rooms	Confined areas, offices, conference rooms, meeting rooms, Rest room (CR), VIP rooms	For warehouse/storage and production areas	Bypass switches, Manual On/Off/Dimming	For long corridors, lobby, Aisleway, warehouse/storage



The logo for SensorSwitch, featuring the brand name in a stylized font within a red-bordered box.

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WSXA SERIES

Wall Switch Sensor

Multi-Way Control. Modern Design.



Model	Description	Technology	Coverage	Operating Voltage	Size
WSXA PDT	Wall Mounted Type Sensor	PDT (Passive Infrared + Microphonics)	Small motion: 20ft (6.10m); 625 sq ft Large Motion: 36ft (10.97m); 2,025 sq ft	1200W @ 120- 277VAC	H 2.74" (6.96cm) W 1.68" (4.27cm) D 1.63" (4.14cm)
WSXA PDT 2P FAN	Wall Mounted Type Sensor (2 Poles) with Fan Control	PDT (Passive Infrared + Microphonics)	Small motion: 20ft (6.10m); 625 sq ft Large Motion: 36ft (10.97m); 2,025 sq ft	1200W @ 120- 277VAC	H 2.74" (6.96cm) W 1.68" (4.27cm) D 1.63" (4.14cm)
WSXA MWO PDT	Wall Mounted Type Sensor with Multi-way Operation	PDT (Passive Infrared + Microphonics)	Small motion: 20ft (6.10m); 625 sq ft Large Motion: 36ft (10.97m); 2,025 sq ft	1200W @ 120- 277VAC	H 2.74" (6.96cm) W 1.68" (4.27cm) D 1.63" (4.14cm)

FEATURES

- Single Pole devices can be programmed with Sensor Switch VLP app or traditional push button programming
- Integrated Photocell (disabled by default) prevents light from turning on if sufficient daylight is present
- Line power and load wires are interchangeable
- Fully meets NEC 2017 Section 404.2C neutral requirements
- Push-button programmable without removing cover plate
- New aesthetic with vandal resistant lens

MULTI-WAY (MWO)

Our new WSXA MWO series allows for multi-location On/Off or 0-10 dimming up to 9 devices (2 device limit when neutral-less wiring used) on a single traveler.



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MICROPHONICS TECHNOLOGY Microphonics is an advanced detection technology that has been patented by Sensor Switch, Inc., an Acuity Brands company. It distinguishes human activity sounds from ambient noise. It detects talking, eating, typing, and other human-like sounds, masking out and disregarding building or environmental noises.

LOW VOLTAGE SOLUTIONS

- Powered via power pack or low voltage sensor power supply
- Enables multiple sensors to be used together to cover space
- Allows sensor mounting without a junction box and utilizes convenient low voltage wiring
- VLP (Visible Light Programming)
- Self-calibrating Daylight Controls
- Energy management equipment standard: UL916 (E167435)



Ceiling Type
Occupancy Sensor



Ceiling Type
Occupancy Sensor



Power Pack



Secondary Power
Pack



Corner Wall Mount
Sensor

Model	CM 9	CM PDT 10	PP20	SP20	WV 16 KIT
Description	Standard Range Occupancy Sensor	Extended Range Occupancy Sensor	20 Amp; Self-contained relays; Plenum Rated	Secondary Power Pack Relay (Add a relay) for additional switching options; Plenum Rated	Long Range Occupancy Sensor & Convenient tilting features
Technology	PIR (Passive Infrared)	PDT (Passive Infrared + Microphonics)	Passed 400K mechanical life cycle	-	PIR (Passive Infrared)
Coverage	Small Motion: 12ft (3.66m) Radius	Large Motion: 28 ft (8.53m) Radius	transforms Class I high voltage (120/277 VAC) to Class 2 15 VDC for powering remote sensors	-	Small motion: 40ft (12.19m) Large Motion: 70ft (21.34m)
Operating Voltage	12-24 VAC/VDC Required Powerpack	12-24 VAC/VDC Required Powerpack	120/277 VAC;	120/277 VAC Required Powerpack	12-24 VAC/VDC Required Powerpack
Size	Dia. 4.55" (11.56cm) D: 1.55" (3.94cm)	Dia. 4.55" (11.56cm) D: 1.55" (3.94cm)	H: 3.00" (7.6cm) W: 2.25" (5.7cm) D: 1.88" (4.8cm)	H: 3.00" (7.6cm) W: 2.25" (5.7cm) D: 1.88" (4.8cm)	H 3.0" (7.62cm) W 3.6" (9.14cm) D 1.75" (4.45cm)
Application	Open areas, hallway, stair, small offices, storage/locker rooms	Confined areas, offices, conference/meeting rooms, Rest room (CR), VIP rooms	Can Supply up to 14 (Fourteen) low voltage occupancy sensor	For secondary switching connected to Power Pack	For long corridors, lobby, Aisleway, warehouse/ storage



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CM PDT 9

Ceiling Mount Occupancy Sensor

Ideal for detecting small motions such as hand movements.

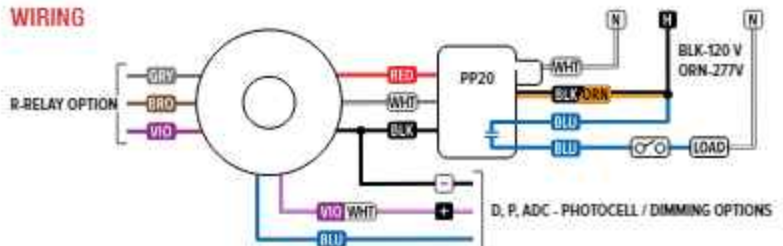


Model	Description	Technology	Coverage	Operating Voltage	Size
CM PDT 9	Ceiling Mount Occupancy Sensors	PDT (Passive Infrared + Microphonics)	Small motion: 12ft (3.66m) Large Motion: 24ft (7.32m)	12-24 VAC/VDC Required Powerpack	Dia. 4.55" (11.56cm) D: 1.55" (3.94cm)

FEATURES

- Configurable using the Sensor Switch Mobile App
- 360° coverage pattern
- Push-button programmable, adjustable time delays, and multiple operating modes
- 100 hr lamp burn-in timer
- No field calibration or sensitivity adjustments required
- Convenient test mode
- Green LED indicator

WIRING

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CMR PC ADC

Daylighting Family Sensors

Most intelligent control of lighting for daylight harvesting applications

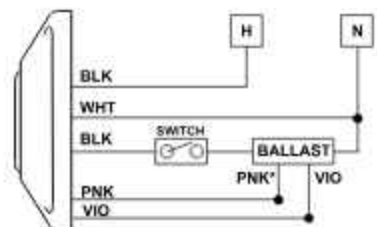
Model	Description	Technology	Mounting	Operating Voltage	Size
CMR PC ADC	Daylighting Family sensors	ADC Automatic Dimming Control	Round Fixture Box or Single Gang Handy Box	120-277 VAC	Dia. 4.55" (11.56cm) D: 1.55" (3.94cm)

FEATURES

- Self-Contained Relay, no Power Pack needed
- Digitally Programmable via simple push-button commands
- Dimming sinks up to 20 mA
- No minimum Load Requirements
- 100 Hour Lamp Burn-in Timer Mode

STANDARD WIRING

BLACK* - Line Input
BLACK* - Load Output
WHITE - Neutral



*BLACK wires can be reversed

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SBOR FAMILY



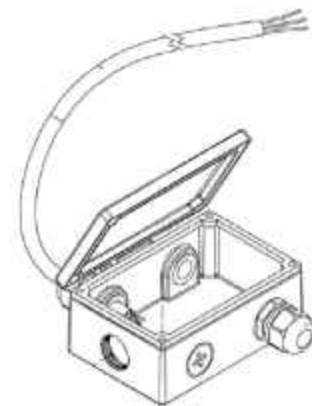
Fixture Mount Motion Sensor

Model	SBOR 6 SBOR 6
Weight	9.6 oz
Operating Temp.	-40° to 160° F (-40° to 71° C)
Mounting	1/2" knockout (7/8" hole)
Mounting Height	SBOR 10: 8 -16 ft (2.44-4.57 m) SBOR 6: 15-30 ft (4.57-9.14 m)
Maximum Load	1200 W @ 277 VAC 1200 W @ 240 VAC
Application	cold environment and outdoor applications
Certification	Tested to NEMA WD 7-2011
Technology	PIR (Passive Infrared) Technology
Life Cycle	Passed 500K Mechanical Life Cycle



JEBL WBK M6

-40° to 160° F (-40° to 71° C)
UL916 (E167435)
Tested to NEMA WD 7-2011



- Mobile device configurable using the Sensor Switch Mobile App
- IP66 Rated for Outdoor Applications
- Self-Contained Relay, No Power Pack Needed
- Compatible w/ LEDs, Electronic & Magnetic Ballasts, CFLs, & Incandescents
- Interchangeable Hot & Load Wires- Impossible to Wire Backwards
- Adjustable Time Delays, Max/Min Dim Levels, & Ramp Rates
- Programming Button Accessible without Opening Sensor or Removing Gaskets
- No Field Calibration or Sensitivity Adjustments Required
- Non-Volatile Settings Memory
- Convenient Test Mode





Networked lighting controls reduces energy costs, aids in building code compliance, occupant comfort and much more. nLight® is a lighting controls solution that is easy to specify, install, and use that grows with the pace of your business today and tomorrow.

DAY LIGHT HARVESTING SOLUTIONS



Daylight Harvesting Photocell



Low Voltage Wall Switch



Power/Relay Pack

Model	nCM ADCX RJ8 nCM PC RJ8	nWSX PDT LV DX WH	nPP16 EFP
Input Ratings	15-24VDC, 3mA, Class 2 (nLight network power)	15-24VDC, 3mA, Class 2 (nLight network power)	120/277VAC, 50/60 Hz
Class Ratings	-	-	0-10VDC Dimming
Size	4.55"W x 1.55"D (116mm x 40mm)	2.74"H x 1.68"W x 1.63"D (70mm x 43mm x 41mm)	3.38"H x 2.53"W x 1.83"D (86mm x 64mm x 47mm)
Coverage Pattern	-	Small Motion detection up to 20 ft (6.10 m) Large motion detection greater than 36 ft (10.97 m)	-
Mounting	Single-Gang or Octagonal Box, Surface Mount	Single-Gang Box or Utility box	1/2" Knockout (7/8" hole)
Connection Type	RJ-45 nLight Network Ports (2)	RJ-45 nLight Network Ports (2)	Supplies 40mA of Bus Power / RJ-45 port
Warrantied Operating Temperature	Standard: 14°F to 185°F (-10°C to 85°C) PDT option: 14°F to 140°F (-10°C to 60°C) LT option: -4°F to 185°F (-20°C to 85°C) PDT LT options: -4°F to 140°F (-20°C to 60°C)	32°F to 140°F (0°C to 60°C)	Standard: 14°F to 122°F (-10°C to 50°C) Standard: 14°F to 113°F (-10°C to 45°C) if enclosed within a junction box LT option: -4°F to 122°F (-20°C to 50°C)
Relative Humidity	Up to 90%, Non-Condensing	Up to 90%, Non-Condensing	Up to 90%, Non-Condensing
Standards/ Ratings	System Component to aid in compliance with Title 24, ASHRAE 90.1, IECC	Energy Management Equipment, UL916 (E167435) RoHS	RoHS, Plenum UL2043



nLight® Wired is an intelligent lighting controls solution that integrates time-based, daylight-based, and manual lighting control. It uses CAT-5e low voltage connected devices to establish a digital communication network, enabling code compliance, enhanced functionality, and energy savings.

NETWORK LIGHTING SYSTEM SOLUTION

WIRED



Model	NIO BT	PS-150	NPP16 D EFP	NCM PDT 10 RJ45
Description	Bluetooth® Low Energy (BLE) Radio Module to allow wireless communication between the local nLight zone and iOS/Android smart phone application, CLAIRITY+.	PS 150 power supply contributes power to nLight devices such as the Gateway and Bridge. Generates up to 150mA of power at 15 VDC	Capable of switching loads via an internal latching relay. Power - up to 40mA from each of its two RJ-45 ports - by transforming Class 1 line voltage (120/277 VAC or 347 VAC) to Class 2 low voltage (15 VDC)	Occupancy sensors provide a range of networked sensor solutions for applications with finished ceilings.
Operating Temperature	32°F to 140°F (0°C to 60°C)	14°F to 122°F (-10°C to 50°C)	14°F to 122°F (-10°C to 50°C)	PDT option: 14°F to 140°F (-10°C to 60°C) LT
Input ratings	15-24VDC, 7mA, Class 2	120/277VAC, 50/60 Hz	220-240VAC, 50/60Hz (with 230 option)	15-24VDC, 3mA, Class 2



Model	NECY MVOLT BAC ADR SVS ENC
Description	System Controller. Each system controller supports up to 750 nLight and nLight AIR devices. Additional controllers can connect and scale a system of lighting controls to a maximum of 20,000 devices. Includes Wi-Fi Adapter.
Technology	BACnet/ IP & MS/TP Enabled
Enclosure	NEMA 1 Enclosure and pre-mounted 120-277VAC input, 24VDC output (Max 50W) power supply



Model	NPOD TOUCH BK
Description	Touch Screen Wall Switch enables control of nLight-enabled devices, scenes, shades and channels behind a multi-user access level architecture.
Operating Temperature	32°F to 122°F (0°C to 50°C)
Size	H 5.18" x W 3.37" x D 0.75"
Standards/ Rating	System Component to aid in compliance with Title 24, ASHRAE 90.1, IECC



Model	NPODMA 2P DX WH	NPODMA 4S DX WH	NPODMA 4L DX WH
Description	Two channels	4 Scene control (4 buttons)	Four levels with raise/lower
Technology	PDT (Passive Infrared + Microphonics)	PDT (Passive Infrared + Microphonics)	PDT (Passive Infrared + Microphonics)
Operating Temperature	32°F to 140°F (0°C to 60°C)	32°F to 140°F (0°C to 60°C)	32°F to 140°F (0°C to 60°C)
Input ratings	15-24VDC, 5mA, Class 2	15-24VDC, 5mA, Class 2	15-24VDC, 5mA, Class 2
Size	H 2.74" (6.96cm) W 1.68" (4.27cm) D 1.63" (4.14cm)	H 2.74" (6.96cm) W 1.68" (4.27cm) D 1.63" (4.14cm)	H 2.74" (6.96cm) W 1.68" (4.27cm) D 1.63" (4.14cm)
Application	Commercial Office, Hospitality, Education, and Industrial Applications		



nLight® AIR is wireless lighting control within the nLight platform, delivering networked lighting controls that are easy to specify, install, and use. With the elimination of wires, nLight AIR can be used in a wide variety of applications, from indoor to outdoor, new construction to renovation, and scales easily from simple to advanced.

NETWORK LIGHTING SYSTEM SOLUTION

WIRELESS



Model	RPP20 DS 24V EFP G2	RIO ZT 90D G2	RPODLA 2P DX MVOLT WH G2	RCMS PDT 10 AR G2
Description	Power/Relay Pack	Fixture embedded network interface	Wireless, line-powered wall switch that provides a user with local control of a lighting zone.	Wireless Ceiling/Surface Mount Occupancy Sensors
Technology	-	0-10 VDC dimming	Pa	PDT (Passive Infrared + Microphonics)
Coverage	-	2.4GHz; Up to 60 ft. (~18m) in free space/ line of sight	2.4GHz; Up to 60 ft. (~18m) in free space/ line of sight	Small motion: 12ft (3.66m); 9 sq ft Large Motion: 24ft (7.32m); 2,000 sq ft.
Operating Voltage	120-277VAC, 120-480VAC (UVOLT)	-	120-277 VAC	Powered by 24V DC from rPP20 or nLight PS 150 power supply
Size	3.50" x 3.52" x 1.82"	1.180" H x 2.617" W x 1.335" D	2.74" H x 1.68" W x 1.78" D	Dia. 4.55" (11.56cm) D: 1.55" (3.94cm)
Mounting	1/2" Knockout	Fixture Mounted	Single Gang Switch Box or Low Voltage Ring	Ceiling Tile, 3.5" Octagon Box

NETWORK LIGHTING SYSTEM SOLUTION



nLight Air Wireless Devices



SensorView Configuration and Monitoring Software



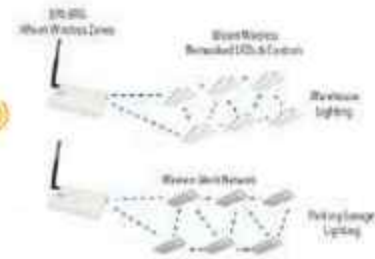
nLight ECLYPSE Schedules and System Profiles



nBRG nLight Zones



nLight uniTouch



nLight Zone



CASE STUDIES



PROJECT REFERENCE



OFFICES



FACTORIES



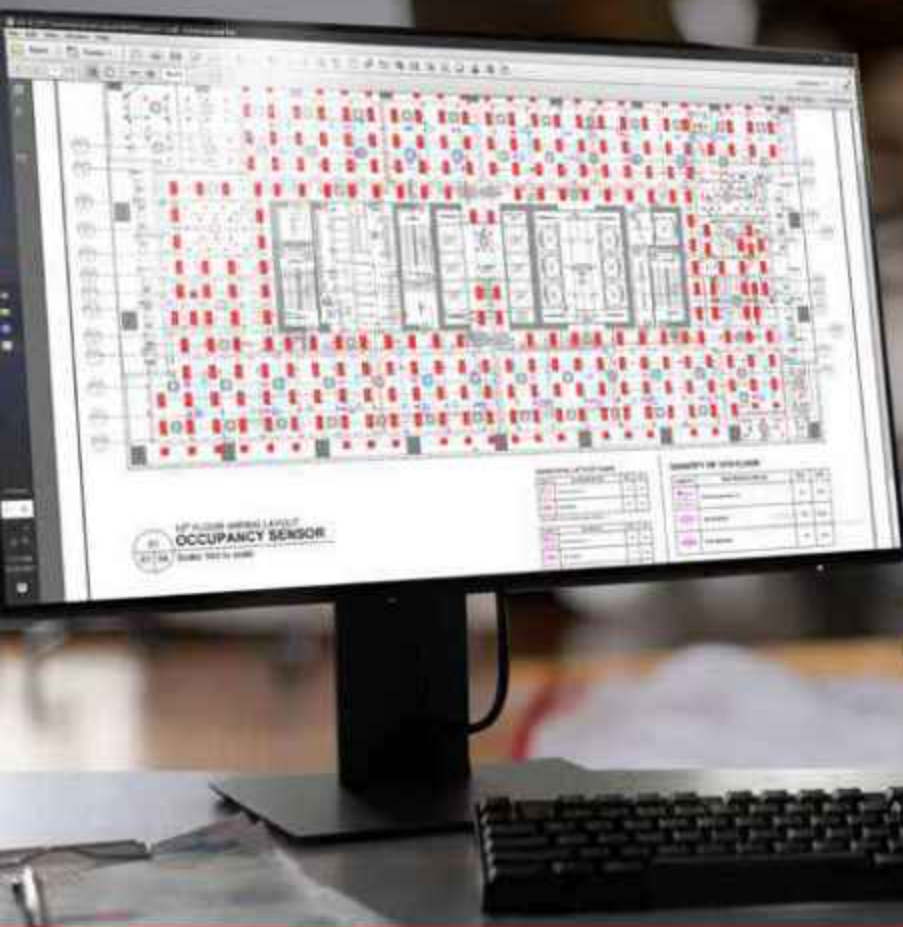
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MAKE THAT MOVE TO START *saving!*

Whether it's retrofitting solution to your existing switches, new installations of lighting with controls or setting time sequence of operations to your lighting or ventilation equipment, we can assist you with those! For commercial, residential warehouses, production and other industrial applications, part of our services are design and recommendations for efficient controls and energy management solutions.

Get in touch with your friendly sales representative now!



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