Catalog Number: | Date: | Project:

OVERVIEW

The nLight nWV 16 Series Wide View occupancy sensor is designed to mount in a corner and detect small motions up to 40 ft (12.19 m) away, and larger motions up to 70 ft (21.34 m) away. This makes it ideal for 30 ft x 30 ft (9.14 m x 9.14 m) classrooms or corridors up to 70 ft (21.34 m) long. The enclosure's convenient tilting feature enables the sensor to be mounted at any height from 8 to 10 ft (2.44 to 3.05 m). When corner or wall mounting is not possible, the WV BR bracket accessory can be used to mount the nWV 16 to the ceiling. Additionally, the nWV 16 may be used in combination with other nLight sensors to customize coverage for very large or irregularly shaped spaces. For rooms with obstructions, use the nWV PDT 16 Series sensor which adds Microphonics™ detection.

FEATURES

- Patented Dual Technology with PIR / Microphonics™ Detection (PDT version)
- 120° by 40 ft (12.19 m) Coverage for Small Motion
- Integrated On/Off Photocell
- Communicates w/ nLight Network
- Remotely Configurable/Upgradeable
- Push-Button Programmable
- Adjustable Time Delay
- 100 hr Lamp Burn-in Timer

Government Procurement

BAA – Buy American Act: This product is available in a version that qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS.
BABA – Build America Buy America: This product is available in a version that qualifies as produced in the United States under the definitions of the Build America, Buy America Act, as implemented by 2 C.F.R. Part 184 and other agency implementing regulations, including Department of Transportation regulations.
Please refer to www.acuitybrands.com/resources/buy-american for additional information.

Warranty

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

A+ Capable

This item is an A+ capable component, which has been designed and tested to provide out-of-the-box luminaire compatibility with simple commissioning, when included as part of an A+ Certified™ Solution.

To learn more about A+, visit www.acuitybrands.com/aplus.

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

nWV 16
nWV PDT 16
Corner Mount 120° Wide View Sensor



BAA BABA

Design Select options indicated by this color background.

ORDERING INFORMATION

nWV 16 / nWV PDT 16 — **Example: nWV PDT 16 KIT**

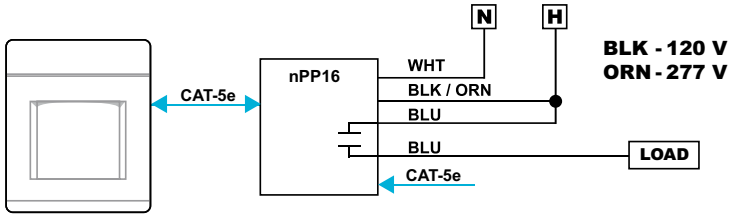
Series		Temp/ Humidity		Bracket Kit		Buy America(n)[1]	
nWV 16	120° Wide View Sensor	[blank]	Standard	[blank]	Sensor Only	[blank]	Standard
nWV PDT 16	120° Wide View Sensor Dual-Technology	LT	Low Temp	KIT	Sensor & WV BR Bracket	BAA	Buy American Act and/or Build America Buy America Qualified

Notes:
1. Not available with LT option

© 2014-2026 Acuity Brands Lighting, Inc. All rights reserved. Rev. 05/22/26

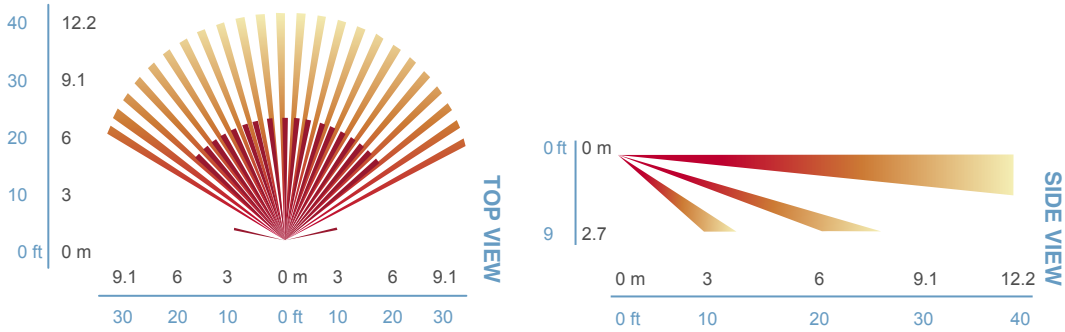
WIRING

Sensor power is provided via the CAT-5e connection.

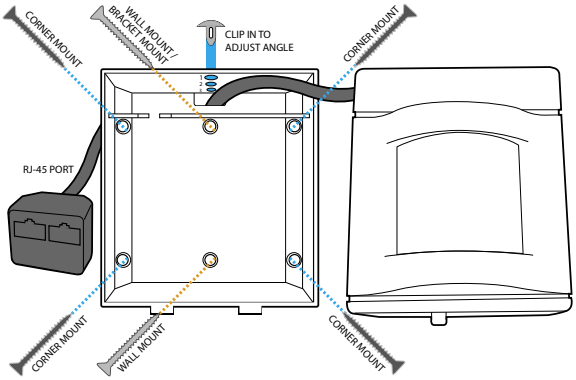


WIDE VIEW LENS

- Small motion (e.g. hand movements) detection up to 40 ft (12.2 m)
- Large motion (e.g. walking) detection up to 70 ft (21.34 m)
- Designed for 8 to 10 ft (2.44 to 3.05 m) high mounting in room corner



- Unit's rear enclosure piece is beveled so as to facilitate corner mounting. Mount between 8 to 10 ft (2.44 to 3.05 m) high using the four screws provided.
- Interconnect unit (via RJ-45 splitter) with other nLight devices in lighting zone using CAT-5e cables.
- Once power is received via CAT-5e connection, all devices in zone will automatically begin functioning together according to each device's defaults.
- Snap front piece into mounted rear piece and set sensor view angle using the plastic tilt adjustment peg (see table below right).
- The WV BR bracket (pictured right, only included in kit option) enables mounting to ceiling, if desired. Route CAT-5e cable through hole in bracket, then using provided screw, mount sensor to the bracket's flat side for 8 to 10 ft (2.44 to 3.05 m) heights. Mount sensor to angled side for mounting above 10 ft (3.05 m).



TILT ADJUSTMENT

Mounting Height	Position
7' - 8'	Vertical
8' - 9'	Center
9' - 10'	Forward
Above 10'	Use WV BR



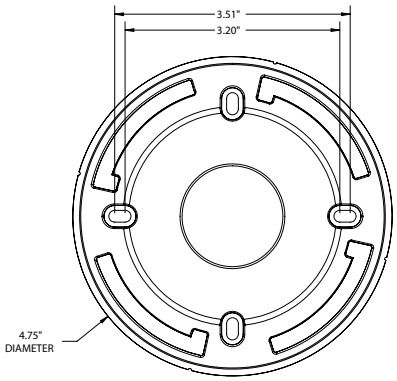
CEILING MOUNT BRACKET (WV BR)

The **WV BR** Ceiling Mount Bracket allows the **nWV 16** to be mounted in the corner of the area from the ceiling for conditions where mounting to the wall is not possible.

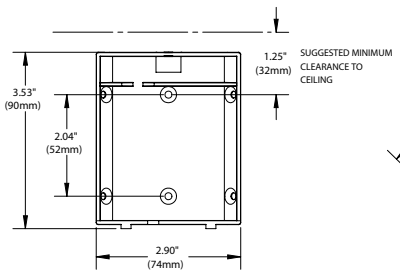


nWV (PDT) 16 - TN-300

nWV KIT / WV BR - CEILING PLATE MOUNTING DIMENSIONS



WV / nWV MOUNTING HOLE LOCATIONS



© 2014-2026 Acuity Brands Lighting, Inc. All rights reserved. Rev. 05/22/26

SPECIFICATIONS

Electrical	**Input Ratings**	15-24VDC, 3mA, Class 2 (nLight network power)
	Standards/ Ratings	Energy Management Equipment, UL916 (E167435)
Mechanical	**Dimensions**	3.60H" x 3.00W"x 1.75D" (91mm x 76mm x 45mm) WV BR Bracket (KIT Option): 4.70"W x 3.30"D (119mm x 84mm)
	Mounting	Directly to corner or Surface mount to ceiling if using WV BR bracket (KIT Option)
	Color	White
	Connection Type	RJ-45 nLight Network Ports (2 ports via included RJ-45 splitter)
Environmental	**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)
	Relative Humidity	Up to 90%, Non-Condensing
	Standards/ Ratings	RoHS
General	**Standards/ Ratings**	System Component to aid in compliance with Title 24, ASHRAE 90.1, IECC

© 2014-2026 Acuity Brands Lighting, Inc. All rights reserved. Rev. 05/22/26