LIGHTING CONTROLS™

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

NX Connect

NXC-WHS20 HIGH-BAY INTEGRATED SENSOR

DESCRIPTION

The NX Wireless High-Bay Sensor (NXC-WHS20) is a sensing and control module within the NX Connect lighting control solution. It enables standalone or networked control of individual luminaires. The NXC-WHS20 provides cost-effective occupancy and ambient light detection with full range dimming.

These sensors come factory installed in many of Current's LED fixtures.

PRODUCT OVERVIEW

Available in both a bottom mount and side mount version, the NXC-WHS20 is an extremely versatile solution for a wide range of fixture types including low, mid, and high bay luminaires. Perfect for industrial warehouses and racked aisles, the NXC-WHS20 has an optional snap-on aisle mask for directed occupancy detection that makes for simple and easy installation.

The sensor is shipped pre-installed in Current LED fixtures to operate in standalone mode. The standalone mode works with pre-programmed settings to maximize energy efficiency using occupancy sensing and daylighting in individual fixtures.

The sensor can be personalized to NX Connect zonal based control. The NX Connect commissioning app is available as a free download on the Apple® App Store. Once the sensors are grouped with the app, the sensed information is then shared between all the luminaires mapped in the zone.When configured in NX Connect mode, the NXC-WHS20 sensor is designed with persistent lighting control capability, to operate as stand-alone in case of network communication failure.

When commissioned in a zone it is also possible to adjust preferred dimming levels manually through self-powered wireless switches (NXC-ZBT-S1AWH) or battery-operated dimmers and scene switches (NXC-WWD2).

KEY FEATURES AND BENEFITS

- The NXC-WHS20 Control Module is equipped with a passive infrared (PIR) sensor for Occupancy Detection and an Ambient Light Sensor to adjust the luminaire based on external light levels to ensure consistent lighting at the task level.
- With innovative methodology, Occupancy and Ambient Light Detection can be synchronized to provide dynamic continuous dimming performance to maximize energy efficiency.
- With a wide operating temperature range, the WHS20 is well suited for more demanding environments such as manufacturing spaces, high bay retail, warehouses and parking garages.
- The control of the luminaire is carried out through the digital bus between the output of the sensor and the control input of the luminaire's LED driver. The digital bus also provides the necessary supply power for the sensor.

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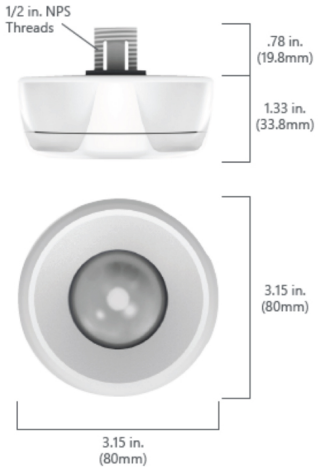
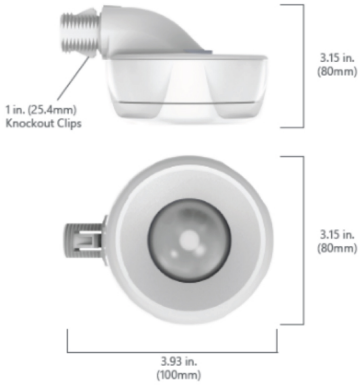
Product Dimensions

Bottom Mount



Side Mount



SPECIFICATIONS

Occupancy Detection	PIR
Ambient Light Detection	ALS
Wireless Technology	Based on the 802.15.4 standard
Bidirectional	IR
Radio	2.4GHz +10dBm transmit power
BLE Beacon	iBeacon™
Driver Compatibility	Digital Addressable (DA) Digital Power Bus
Power Consumption	< 0.5Wz
DA Input	24VDC, 250mA Max
LED Indicators	Green: Occupancy Detection Red: Off for Normal Operation
Lenses	2.5m, 6m, and 12m (8ft, 20ft, and 40ft) 360º or Aisle
Operating Environment	`-40ºC to +70ºC (-40ºF to +158ºF) 5 to 90% RH, Non-Condensing
Enclosure	NSF, IP66 and IP69K Rated (when installed in similarily rated fixture) FCC Part 15
Warranty	5 Years

PRODUCT CERTIFICATIONS

Compliance: FCC ID: QOQMGM12PO
IC ID: 5123A-MGM12PO
CAN ICES-3 (B)/NMB-3(B)

UL LISTED: E337125

FIELD CHANGEABLE NX-WHS20 SENSOR ACCESSORIES

Ordering Sku	Ordering Cat# Logic	Description
93134999	NX- WHS20_LOW_LENS_KIT_10	Low Lens: 2.5m (8ft) - 10pk
93135001	NX- WHS20_MED_LENS_KIT_10	Med Lens: 6m (20ft) - 10pk
93135003	NX- WHS20_HIGH_LENS_KIT_10	High Lens: 12m (40ft) - 10pk
93134985	NX- WHS20_SNAP_AISLE_MASK_KIT_10	Snap on Aisle Mask

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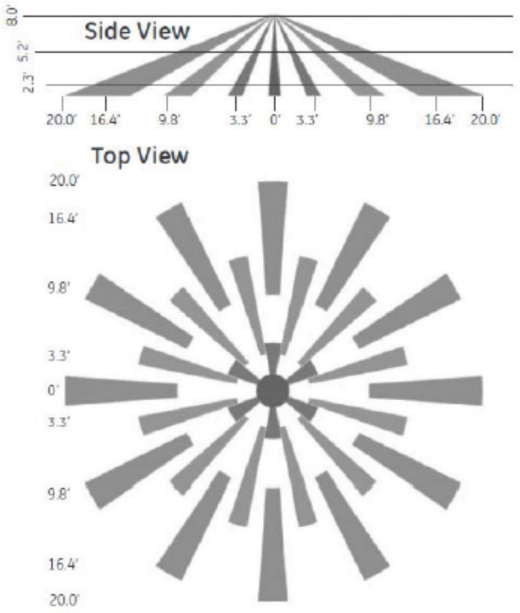
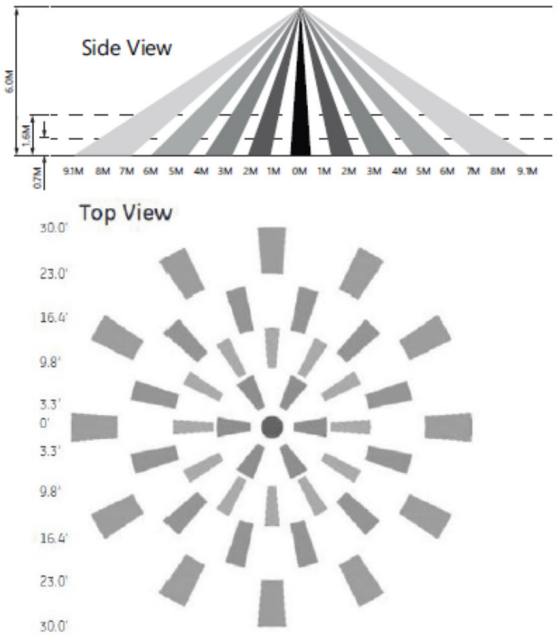
Low Lens: 2.5m (8ft)

20ft Radius/40ft Diameter



Med Lens: 6m (20ft)

30ft Radius/60ft Diameter

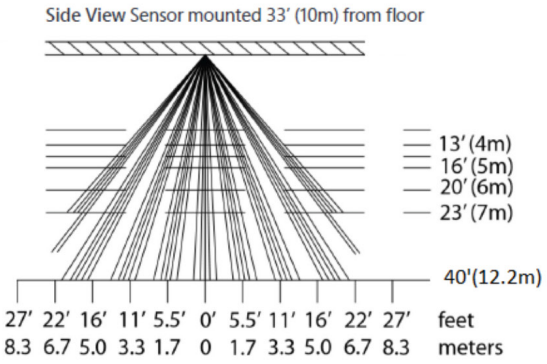


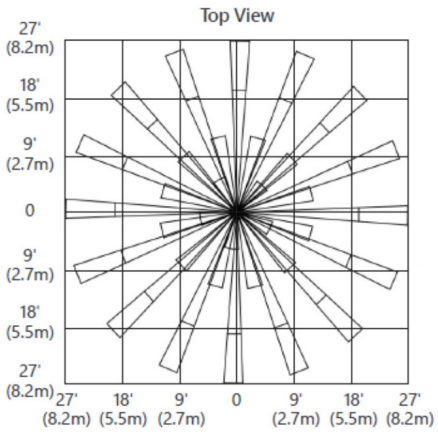
PIR sensor coverage tested

as per NEMA WD7-2011

High Lens: 12.2m (40ft)

27ft Radius/54ft Diameter





The NXC-WHS20 comes with the High Lens as standard. Low and Medium lenses can be ordered separately.

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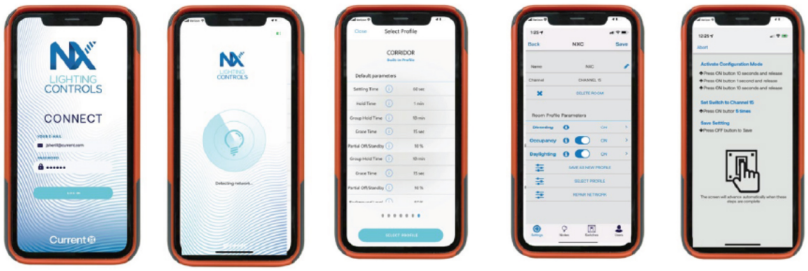
APP INFORMATION

NX Connect devices and be customized with the NX Connect app that is available for free download on the Apple® Store.



Connect Fixtures in rooms to operate together with the same rules

Establish and save room profiles/rules

Change sensor default settings

Add switches and other accessories to the rooms

NX CONNECT WIRELESS SENSOR SETTINGS

Name	Description	Minimum Value	Maximum Value	Default Value
Settling Time	The time (measured in sec) that occupancy must be detected for a fixture to transition from Background state to Task state	0 sec	300 sec	5 sec
Hold Time	The time (measured in minutes) that occupancy must NOT be detected for a fixture to transition from Task state back to Background state.	0 min	60 min	15 min
Group Hold Time	The time (measured in minutes) That any fixture in a room or zone of fixtures must NOT detect occupancy for the entire of fixtures to transition from Background state to Standby state.	0 min	60 min	15 min
Grace Time	Set to 0 for Automatic-Detection mode. Otherwise, the room is programmed to operate in Vacancy-Detection Mode, and the fixture will transition from the Standby state to the OFF state if the occupancy is NOT detected within the Grace Time (measured in seconds).	0 sec	30 sec	0 sec
Partial Off/Standby	The output power level in Standby state - in percentage of the full power.	0%	100%	0%
Background Level	The output power level in Background state - in percentage of the full power.	0%	100%	10%
Task Level	The output pwer level in Task state - in percentage of the full power.	0%	100%	100%
Daylight Harvesting	This parameter enables the Daylight Harvesting functionality.	0 (disabled)	1 (enabled)	1 (enabled)
Low Ambient Output	The light level above which daylight harvesting dimming will start, given as a percentage of the fixture's own light output.	10%	500%	250%
High Ambient Output	The light level above which daylight havervesting dimming will start, given as a percentage of the fixture's own light output.	0 (off)	1 (min dimming)	0 (off)
Occupancy Sensitivity	The sensitivity of the motion sensor between 1 (lowest) and 5 (highest).	0 (disabled)	5 (highest)	5 (highest)
Occupancy Indicator	This parameter switches between Indicator OFF (0) Indicator ON (1) mode.	0 (disabled)	1 (enabled)	1 (enabled)