Daintree[™] Wireless Controls

WHS20 Wireless Sensor



Project Name	
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Catalog Number	

Description

The Daintree[™] Wireless High-Bay Sensor (WHS20) is a sensing and control module within the Daintree wireless building control solution. It enables standalone or networked control of individual luminaires. The WHS20 provides costeffective occupancy and ambient light detection with full range dimming. An optional built-in BLE beacon with Apple[®] iBeacon[™] technology can be used for position and proximity detection.

Available in both a bottom mount and side mount version, the 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 WHS20 has an optional snap-on aisle mask for directed occupancy detection that makes for simple and easy installation. With a wide operating temperature range, IP66 and IP69K rating, the WHS20 is well suited for more demanding environments such as manufacturing spaces, parking garages, and outdoor area lighting.

The WHS20 can operate in two primary modes:

- 1) As a standalone control module with occupancy and ambient light detection, configured with the Daintree Wireless Handheld Remote (WHR1)
- 2) As a component of the Daintree Networked solution a highly scalable system for lighting and building control, monitoring, and optimization.

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PRODUCT ID	GENERATION	VOLTAGE	MOUNTING	HOUSING
WHS = Wireless Highbay Sensor	2 = 2nd Generation	0 = Low Voltage	BM = Bottom Mount SD = Side Mount	S = Sealed

See pg. 5 for accessories ordering information

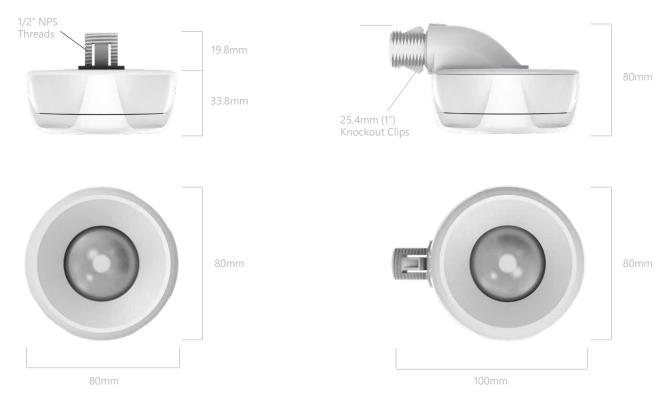




Product Dimensions

Bottom Mount (WHS20-BM-S)

Side Mount (WHS20-SD-S)



Mounting

The WHS20 has a combination snap feature and 1/2in NPS threaded nipple for mounting to a luminaire. The snap feature can be used with most sheet metal fixtures including a standard 0.875in knockout. For IP66, IP69K or NSF applications, attach the WHS20 to an equivalent rated fixture and use a conduit nut to achieve proper seal against the fixture.



Specifications				
Occupancy Detection	PIR			
Ambient Light Detection	ALS			
Wireless Technology	Zigbee PRO (HA, BA) Bidirectional IR			
Radio	2.4GHz +10dBm transmit power			
BLE Beacon	iBeacon™			
Driver Compatibility	Digital Addressible (DA) Digital Power Bus			
Power Consumption	< 0.5W			
LED Indicators	Green: Occupancy Detection Red: Off for Normal Operation			
Lenses	2.5m, 6m, and 12m (8ft, 20ft, and 40ft) 360° or Aisle			
Operating Environment	-40°C to +70°C (-40°F to +158°F) 5 to 90% RH, Non-Condensing			
Enclosure	NSF, IP66 and IP69K Rated (when installed in similarly rated fixture)			
Compliance	FCC Part 15 FCC ID: QOQMGM12PO IC ID: 5123A-MGM12PO CAN ICES-3 (B)/NMB-3(B) UL Listed: E337125			
Warranty	5 Years			

Labels

Every WHS20 includes the necessary labels for Daintree Networked commissioning.

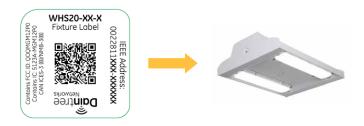
Unit Label

The unit label is already on the WHS20.



Fixture Label

The fixture label should be attached to the fixture and visible to maintain regulatory compliance.



Plan Label

The plan label is useful for attaching to a paper facility map or tracking sheet.



Daintree Networked Default Performance

When in Daintree Networked mode, the default operation of the WHS20 is as follows:

Default Operation

• The WHS20 will keep the luminaire on at 100% until commissioned

Daintree Network Conencted

Not Commissioned

• The WHS20 will still keep the luminaire on at 100%

Commissioned to a Zone

• The WHS20 will follow the zone control of the Daintree Network, configurable via WHR1

Daintree Network Connection Lost

• The WHS20 will keep the luminaire on at 100% until commissioned

Daintree One Default Performance

When in standalone Daintree One mode, the default operation of the WHS20 is as follows:

Occupancy Detection

Occupied Output	100%
Idle Output	10%
Vacant Output	Off
Occupied Time	15m
Idle Time	15m
Occupancy Sensitivity	High
Transition Rise Time	Instant
Transition Fall Time	5s

Ambient Light Detection

Low Ambient Threshold	2.5x
High Ambient Threshold	3.5x
High Ambient Output	Off
Ambient Light Sensitivity	Medium
Ambient Transition Time	1m

Dimming Function

Max Dim Output	100%
Min Dim Output	10%
MinOutput	OFF

Accessories



Aisle Mask (Snap On)

SKUQTY931349841 PC9313498510 PCS



Low Lens

SKUQTY931349981 PC9313499910 PCS



Aisle Mask (Internal)

SKU QTY 93134982 1 PC 93134983 10 PCS



Angle Adjuster

SKUQTY931349961 PC9313499710 PCS



Medium Lens

93135000 1 PC 93135001 10 PCS



High Lens

SKUQTY931350021 PC9313500310 PCS

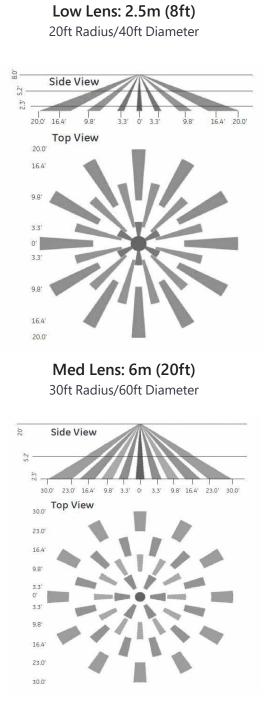


Convenient Commissioning with WHR1

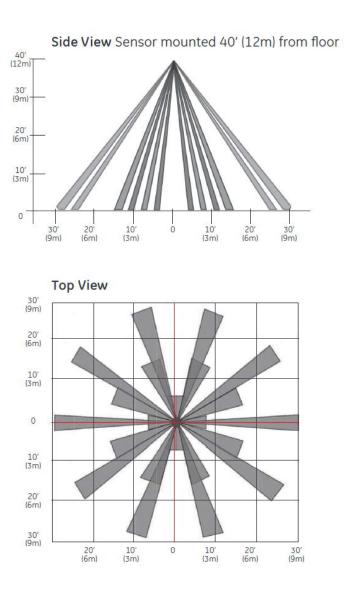
The Daintree[™] WHR1 remote control enables the detailed commissioning and control over IR-enabled Daintree connected devices, such as the WHS20.

Effortlessly upgrade your Daintree[™] devices from Daintree One[™] to Daintree Networked[™] utilizing the WHR1. See WHR1 spec sheet for additional details.

Occupancy Detection Pattern



High Lens: 12m (40ft) 30ft Radius/60ft Diameter



The WHS20 comes with the High Lens by default.



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