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Daintree WIT100 Wireless Integrated Sensor User Manual

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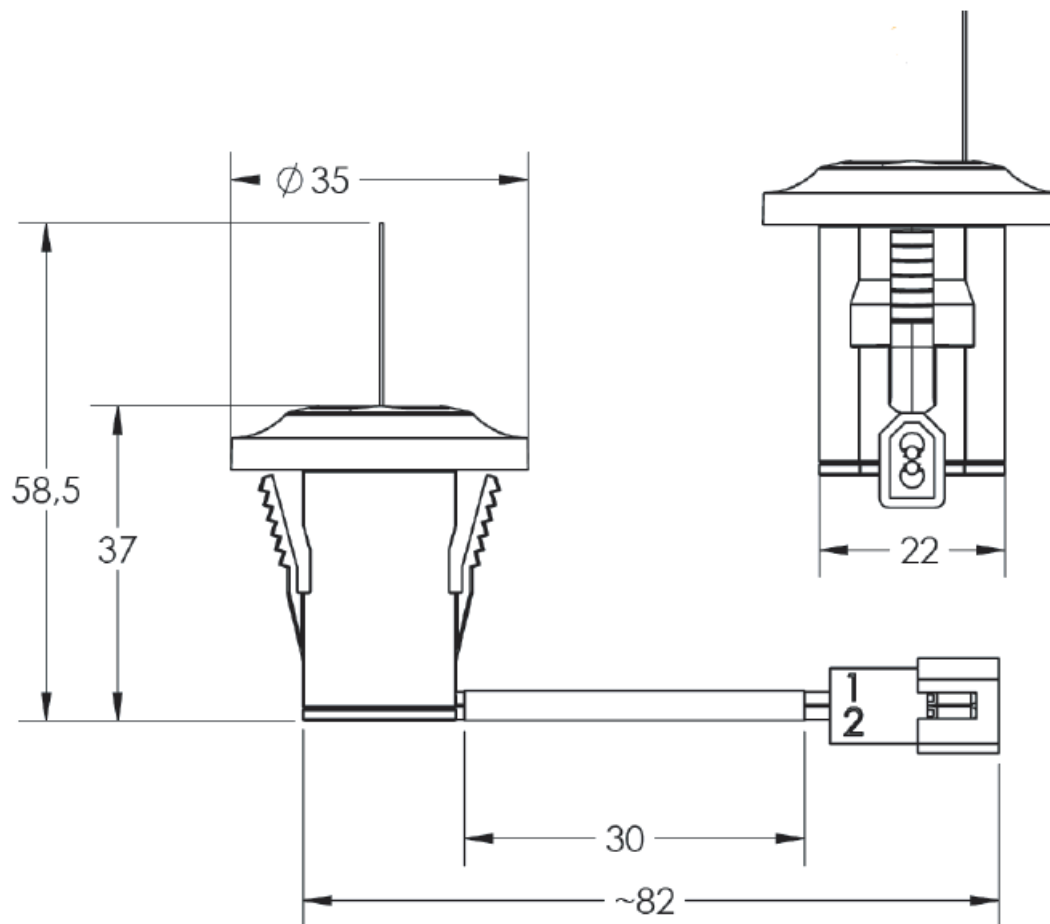
Daintree

Daintree WIT100 Wireless Integrated Sensor

Description

The Daintree® EZ Connect Wireless Integrated Sensor (WIT100) is a small-size, luminaire-integrated sensor with wireless communication based on the 802.15.4 standard which provides secure and reliable communication between the luminaires in the room. Using the WIT100 sensor in each luminaire provides state-of-the-art distributed lighting control based on the built-in motion sensing and daylight harvesting functionalities. The sensor is shipped in Daintree ONE standalone mode. The standalone mode works with pre-programmed settings to maximize energy efficiency. The sensor can be upgraded and personalized with the Daintree EZ Connect app available as a free download on the Apple® App Store. The sensor can be zoned with up to 30 nearby luminaires using the EZ Connect app. Once commissioned, the sensed information is then shared between all luminaires. The system can be commissioned, with the Daintree EZ connect mobile app. The app is available for download on Apple® devices. The app allows the grouping of fixtures and customization of the lighting performance in the space.

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. No additional wiring or auxiliary power supply are required which helps to minimize installation costs. When commissioned in a zone it is also possible to adjust preferred dimming levels manually through self-powered wireless switches (ZBT-S1AWH). This ZBT-S1AWH self-powered and wireless dimmer switches transmit wireless messages to the fixtures using the mechanical energy of button presses to generate all necessary power for the electronics.
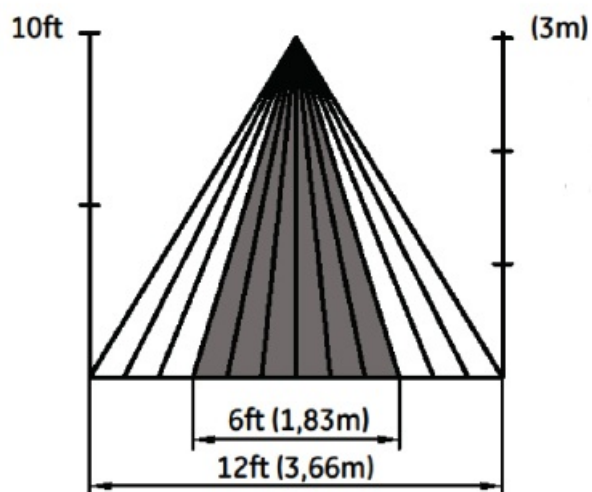
Product Dimensions

Compatible with Daintree

- ZigBee Green Power (included in ZigBee 3.0)
- Daintree EZ Connect controls
- ZBT-S1AWH self-powered, wireless dimmer switches

Sensor Pattern

The detection area determination was performed according to the NEMA WD 7-2011 Standard (Occupancy Motion Sensors Standard). The detector sensitivity was set to the default 80% The whole area shows the major

motion detection field. The shaded area shows the minor motion detection field.

Daintree™ | WIT100 Wireless Integrated Sensor Daintree EZ Connect Benefits

Easy Commissioning:
Daintree EZ Connect mobile app simplifies and reduces the installation process, minimizing disruption to enterprise operations.

Intuitive Deployment:
Daintree EZ Connect mobile app recognizes fixtures that are closest to the installer, so fixtures are easily identified making the commissioning more efficient.

Zoned Communication:
Fixtures can be zoned and the sensors talk to each other to react in concert with each other to occupancy, daylight and wall controls.

Technical Data

Product Specifications

Dimensions:	See Dimensional Diagram
Weight:	15g
Voltage Rating	20Vdc, Class 2 (SELV)
Current Consumption:	Max 8mA (without digital communication) @ Max. 20V DC, Class 2
Sensor Type:	Passsive infrared (PIR) sensor (for motion) and light sensor
Operating Environment:	0°C to 45°C / IP 20 – Indoor, dry location
Status indicator:	Network LED (amber): Network joined / Motion is sensed
Connections:	Cable connection to the Driver or Interface module
Mounting:	Installs with a 22mm (0,87") hole
Recommended Mounting Height:	10 feet (3m)
Warranty:	5 years

Product Certifications

- FCC Compliant
- FCC ID: 2AS3F-WIT100
- IC: 25008-WIT100
- CAN ICES-005 (A) / NIMB-005 (A)

- For a complete list of the harmonized standards that this product is in conformity with, please see this product's EU Declaration of Conformity on **gecurrent.com**
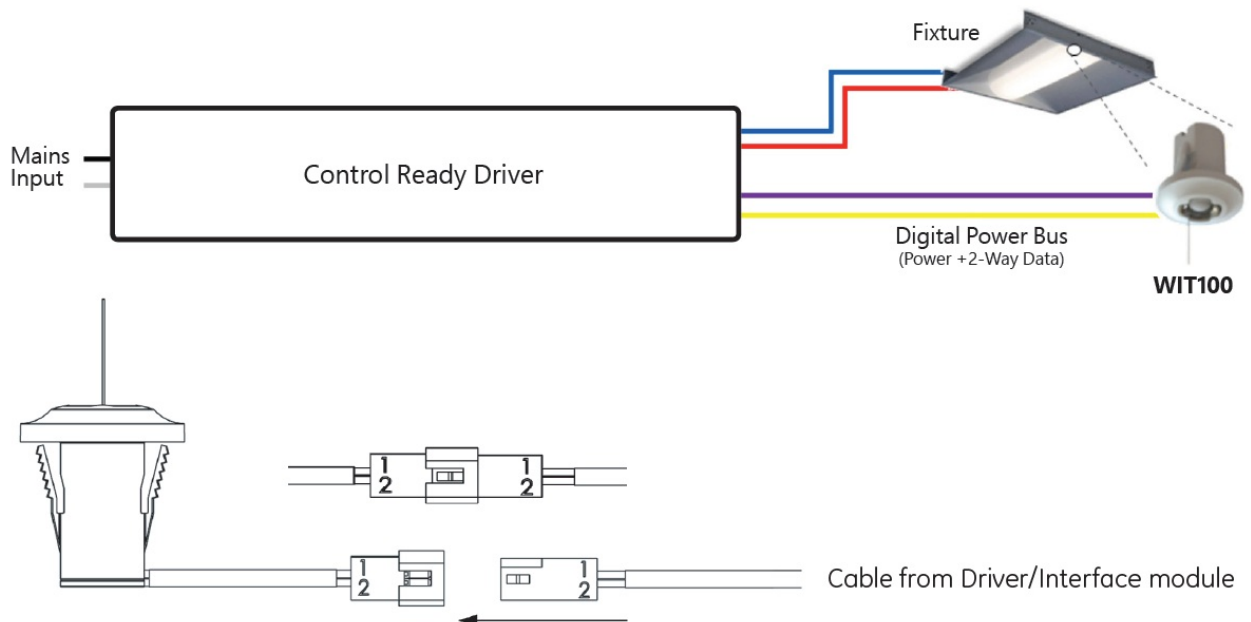
Additional Information

Purpose of the Control:	Operating Control
Method of Mounting Control:	Independently Mount Control. Model WIT100 intended for flush mounting into a recessed cavity
Type of Action and Additional Features:	Type 1
Control of Pollution Degree:	2
Function/Software Class and Structure:	Class A
Rated Impulse Voltage:	330V

Note:
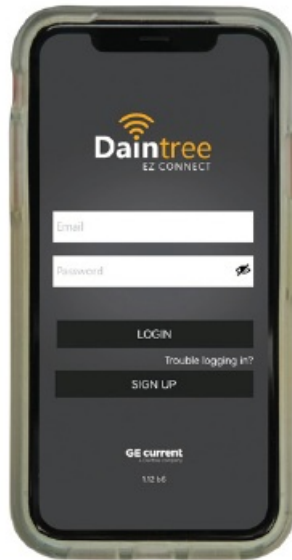Any external cables connected to devices not to exceed 3 meters in length.

Daintree™ | WIT100 Wireless Integrated Sensor Cable Connection to Driver

- Connect the WIT100 Sensor's digital power bus line with the connectors to compatible devices and interface module.
- CE Power Supply Compatibility List: Vossloh-Schwabe Ref. No. 186738 and 186740
- Please contact customer support for the full list of compatible devices.

Commissioning the WIT 100 Sensor
Commissioning the sensor is easy on the Daintree EZ Connect app. The app is available for download on the Apple® App Store.

Product Availability

SKU	DESCRIPTION	ARTICLE NO.
95037451	**Wireless Integrated Sensor**	**WIT100**

Designed in the USA & Hungary by GE current a Daintree company.

Caution:
The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment

FCC/IC Compliance Statements

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: This device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation. This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.

- This device must accept any interference, including interference that may cause undesired operation of the device.
- off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help Suppliers Name: Current Lighting Solutions, LLC Suppliers Address (USA): 1975 Noble Road, East Cleveland, OH 44112 Suppliers phone number and/or internet contact information: 1-800-327-0097

To satisfy FCC/ISED RF exposure requirements a separation distance of 20 cm or more must be maintained between the antenna of this device and persons during operation. Operation at closer than 20cm is not permitted.

Documents / Resources

[**Daintree WIT100 Wireless Integrated Sensor**](#) [pdf] User Manual
WIT100, 2AS3F-WIT100, 2AS3FWIT100, WIT100, Wireless Integrated Sensor