

O-10V Interface

Wireless O-10V Dimming/Switching Interface with SmartCast™ Technology

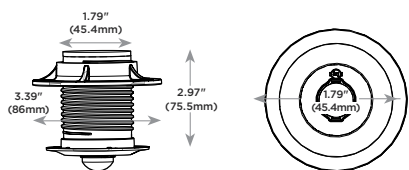
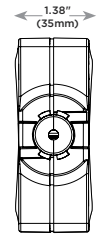
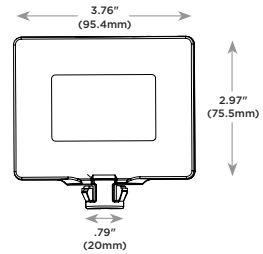
Product Description

The Cree™ Wireless O-10V Interface with Cree SmartCast™ Technology enables control of O-10V dimmable luminaires by other SmartCast™ Technology devices. The Cree O-10V Interface includes ambient light and motion sensor module that blends into the ceiling for a quiet look. Cree SmartCast™ Technology products incorporate integrated ambient and occupancy sensing and wireless communication to achieve energy savings and extended product life resulting in lower electricity bills, reduced maintenance, and an improved total cost of ownership over traditional lighting control systems.

Performance Summary

- Cree SmartCast™ Technology enabled
- O-10V dimming control
- Low-profile sensor module
- Quick and easy installation
- Input Voltage:** 120-277V
- Limited Warranty:** 5 years†

Control Module Occupancy Sensor



Ordering Information

Example: CIF-10V-CWC-SNSR

O-10V Interface	
Product	Control
CIF-10V Cree Wireless O-10V Interface with class 2 dimming	CWC-SNSR Cree SmartCast™ Technology with integral ambient and motion sensors
CIF-10VC1 Cree Wireless O-10V Interface with class 1 dimming (control module for factory installation with luminaire only)	

†See www.cree.com/lighting for warranty terms.



Rev. Date 02/11/2014



O-10V Interface

Product Specifications

CREE SMARTCAST™ TECHNOLOGY

Cree SmartCast™ Technology changes the paradigm of lighting control. With the press of a single button, Cree SmartCast™ Technology enabled luminaires and controls create their own secure network and auto-associate to form logical groups throughout every space. Integrated sensors and robust wireless communication included in every luminaire combined with revolutionary OneButton™ Setup enables automated setup and configuration of luminaires and wall controls. With no extra wires or interfaces, Cree SmartCast™ Technology products reduce installation time and complexity.

MECHANICAL SYSTEM

- Installs into 1/2" knockout in junction box or fixture.
- Sensor module installs into ceiling tile or drywall ceiling (0.25" - 1.5" thickness).
- Meets plenum requirements defined in UL508.
- Can be installed into air handling space (plenum) per requirements of the National Electric Code (NEC)*.

ELECTRICAL SYSTEM

- Input Voltage: 120-227V, 60Hz.
- Input Power: <1W standby power.
- Dimming control output: 0-10V dimming (meets IEC60929).
- Switched output (max.): 6A/120V, 3A/227V.
- 10 year power fail memory of settings.
- Inrush current: 10A max.

INTEGRAL WIRELESS COMMUNICATION

- 2.4GHz wireless mesh technology with AES 128-bit encryption.
- Self assigns to quietest channel during OneButton™ Setup.
- Range:
 - 30 ft. in typical commercial applications.
 - 300 ft. open air without obstructions.
- Network: 250 devices max.
- Space: 100 devices max. per group.
- 0-10V Interface is at full output until OneButton™ Setup is initiated by the Cree Configuration Tool.

INTEGRAL MOTION SENSOR

- Passive infrared (PIR).
- Coverage area: 100 sq. ft. at 10 ft. mounting height.
- Not intended to be mounted higher than 12 ft.
- Operation:
 - Grouped with a wall control: Luminaire will operate in vacancy mode (manual-on/auto-off).
 - Not grouped with a wall control: Luminaire will operate in occupancy mode (auto-on/auto-off).
 - Luminaires operate at full intensity until OneButton™ Setup is initiated by the Cree™ Configuration Tool.

INTEGRAL AMBIENT LIGHT SENSOR

- Luminaires operate at full intensity until OneButton™ Setup is initiated by the Cree Configuration Tool.
- Daylight harvesting calibration performed automatically during OneButton™ Setup.
- Not intended to be mounted higher than 12 ft.

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed.
- Suitable for damp locations.
- FCC certified.
- IC certified.
- Designed for Indoor use.

*Local codes and requirements may vary. Consult your local code.

Wiring Diagram

O-10V INTERFACE

