Wireless Fixture Adapter (WFA100-SN)

Product Overview

The Daintree Networks WFA100-SN Wireless Fixture Adapter is a control component within the ControlScope™ wireless building controls platform, and is used to enable wireless control of individual luminaires.

The WFA100-SN is a cost-effective wireless control solution, providing ON/OFF and 0-10V dimming control of ballasts and LED drivers. The isolated relay offers N/O and N/C contacts providing robust switching options to control a variety of loads. Its compact form factor provides for simple installation and makes it an extremely versatile solution for a wide range of fixture types and sizes. It can also adapt low voltage occupancy and photo sensors to enable these devices to be controlled wirelessly.

The WFA100-SN integrates a standard ZigBee radio that operates seamlessly with other standard ZigBee wireless products to enable advanced lighting controls, from scheduling and occupancy control to daylighting, task tuning and more.

Connectors (Terminal Block)	Function
INPUT VOLTAGE	
Black	Active
White	Neutral
ISOLATED RELAY	
Red	Normally Open (N/O) contact
Yellow	Normally Closed (N/C) contact
Black	Common
SENSORS	
Red	24VDC
Gray	Digital Ground
Blue	Digital input (occupancy sensor)
Orange	0-10VDC Analog input (photosensor)
DIMMING	
Gray	Analog Ground
Violet	0-10VDC Analog output

Specifications	
Dimensions (w/mounting)	1.18" W x 0.98" H x 7.03" L (30mm W x 25mm H x 178.5mm L)
Operating Environment	-13°F to +158°F (-25°C to +70°C) Indoor use only (or inside non-metallic waterproof enclosure)
Indicators	Green LED (power) Green LED (joined network) Red LED (error state)
Mounting	In-fixture/enclosure screw installation
Input Power	120-277 VAC 50/60Hz
Power Consumption	0.72W @120V (Idle, Relay OFF) 0.72W @277V (Idle, Relay OFF) 1.18W @120V (Relay ON) 1.18W @277V (Relay ON)
Isolated Relay	N/O and N/C contacts Zero Crossing
Load Rating	3A @ 120-277VAC
Load Types	General Use, Electronic Ballast
Ballast/Driver Control	On/Off 0-10V Dimming
Low Voltage Output	24VDC; 35mA
Dimming Output	0-10V; 5mA (sink or source)
Slave/Power Pack Control	Yes (using isolated relay contacts)
Radio Properties	2.4 GHz +8dBm transmit power
Compliance	UL listed FCC Part 15 RoHS
Warranty	5 Years

Specification Data	
Job Name	
Job #	
Catalog #	
Comments	

Product Number	Product Description
WFA100-SN	Wireless Fixture Adaptor with Sensor Inputs