SYNOPSE

DIM10-087-06-A

D4i OR 0-10V DIM TO OFF WIRELESS LIGHTING CONTROLLER

Specification Data		
Job Name		
Туре		
Catalog #		
Comments		

PRODUCT OVERVIEW

The DIM10-087-06-A embedded wireless controller opens an exciting integration path for LED Luminaires. The smaller size and lower cost make this DC-powered wireless controller versatile enough to be embedded in nearly any wattage LED Luminaire. Pairing the DIM10-087-06-A with a SimplySnap Site Controller makes it easy to comply with ASHRAE 90.1, Title 24, DLC NLC Indoor/Outdoor, and other energy requirements today and in the future.

KEY FEATURES:

- Seamless SimplySnap Integration
- Simplified DC Design mates with LED Drivers
- Rugged metal enclosure
- Secure AES128 Encryption
- DLC Certification for both Indoor and Outdoor
- Self-healing 2.4GHz SNAP Mesh Networking
- Secure, over-the-air software upgrades
- 2 Sensor Inputs: DC Motion and 0-10V Photocells
- RF RP-SMA bulkhead with RF cable

IEC 62386 DALI-2 Certified - D4i

- DALI-2 Certified DATA Bus Part 101
- D4i Power Monitoring Part 252
- D4i Type D Single-Master Controller Part 351
- DALI-2 Linear Dimming, ON/OFF Part 218
- Compatible with WattStopper DALI-2 FDP-301 Motion and Photocell
- RGBA Color Support
- Requires DALI Power Supply on D4i Driver
- Requires D4i Aux Power Supply

DIM to OFF LED Drivers

- 0-10V Dimming, ON/OFF
- No Power Monitoring
- Powered via LED Driver Aux Power

Note- LED Driver must support DIM to OFF functionality







Powered by SimplySnap

Future D4i Enhancements

- Luminaire Run Time Part 253
- Luminaire Model Data Part 251 Memory Bank 1
- LED Driver Model Data Part 102 Memory Bank 0
- Surge Detection Part 253
- Over Temperature Counters Part 253
- Over Current Counters Part 253
- Diagnostics and Alerts Part 253

SPECIFICATIONS

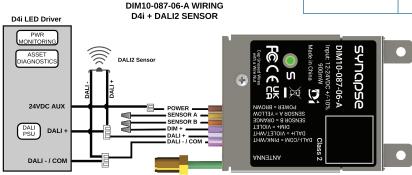
Dimensions	3.1" x 2.3" x 0.5" See Mechanical Datasheet for			
	Engineering dimensions			
Input Power	12-24 VDC +/- 10% , 900mW max			
IP Rating	IP30			
Temperature	-40°C to +80°C			
Dimming	0-10V, 10mA Source/Sink (Max) or D4i Dimming			
D4i LED Drivers ¹	Limited to 4 D4i LED Drivers			
Wire Size	20 AWG, 7" Wires, 600V			
Sensor Input Specifications	Analog: 0-10V Digital: 0-24V	2 Available Software Select		
Radio	SNAP 2.4GHz ; 802.15.4 +20 dBm Transmit Power -103 dBm Receive Sensitivity			
Certifications	UL Recognized Component; FCC/IC; CE; UKCA; DLC- Indoor/ Outdoor; DALI-2- D4i Certification			
Warranty ²	5 Years			

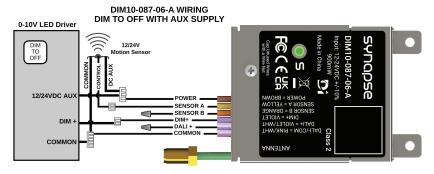
- Maximum of 4 LED Drivers per controller, consult Synapse Support if a greater ratio is needed.
- 2. See www.synapsewireless.com/warranty for warranty terms

WIRING DIAGRAM EXAMPLES

Product # Description

Board in Metal Case with Wires,
Antenna Extension Cable
(External antenna not included)





Status LED- when powered

Color	Meaning
RED	No Network Found (Communication Lost)
BLINKING GREEN	Network Found, Controller Not Configured (Device not yet added to SimplySnap)
GREEN	Network Found, Controller Configured (Normal Operation)

Signal/Wire Colors

Note: Cap Unused Wires with a Wire Nut!

Signal	Wire Color
DALI-/COMMON	PINK/WHITE STRIPE
DALI+	VIOLET/WHITE STRIPE
DIM+	VIOLET
SENSOR INPUT B	ORANGE
SENSOR INPUT A	YELLOW
POWER	BROWN

Antenna Options

Part #	Description
ANT-ORB-1.5-1	Outdoor Fixed Right Angle Antenna, 1.5 dBi gain
ANT-OSB-1.5-1	Outdoor Straight Antenna, 1.5 dBi gain
ANT-ORS-5.1	Stubby Antenna, Outdoor Right Angle

SimplySnap Site Controller options- required for all deployments

Part #	Description	Application
SS450-002	SimplySnap, WiFi, Verizon LTE, Industrial Metal Enclosure	Indoor
CBSSW-450-002	Central Base Station SS450-based Model with 5-button switch and NEMA 4X enclosure	Indoor/Outdoor

Patented - Virtual marking at https://www.synapsewireless.com/about/patents

