

DIM10-087-06-FW

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

Specification Data	
Job Name	
Туре	
Catalog #	
Comments	

PRODUCT OVERVIEW

The DIM10-087-06-FW 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-FW 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
- 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

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

	2.4" x 2.2" x 0.4	,	
Dimensions	See Mechanical Datasheet for		
	Engineering dimensions		
Input Power	12-24 VDC +/- 10% , 900mW max		
Temperature	-40°C to +80°C		
Dimming	0-10V, 10mA Souce/Sink (Max) or D4i Dimming		
D4i LED Drivers¹	Limited to 4 D4i LED Drivers		
Wire Size	18 AWG, 8" Wires, UL 1316 rated, 600V rated		
Sensor Input Specifications	Analog: 0-10V Digital: 0-24V	Software selectable	
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		

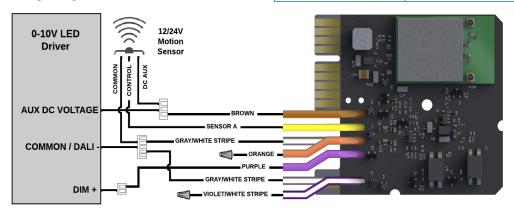
- Maximum of 4 LED Drivers per controller, consult Synapse Support if a greater ratio is needed.
- See www.synapsewireless.com/warranty for warranty terms.

WIRING DIAGRAM EXAMPLES

Product # Description

DIM10-087-06-FW Bare Board, Internal antenna, fly wires included

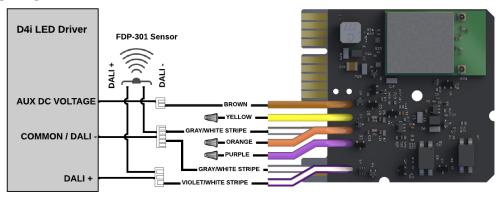
DIM to OFF Wiring Diagram



Note: Deployment is for inside fixtures only.

Do NOT use in a fixture to fixture design.

DALI-2 Wiring Diagram



Status LED- when powered

Signa	I/Wire	Colors
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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 Color		
DALI+	PURPLE/WHITE STRIPE		
DALI-	GRAY/WHITE STRIPE		
SENSOR INPUT B	ORANGE		
SENSOR INPUT A	YELLOW		
POWER	BROWN		
DIM+	PURPLE		
COMMON/DIM-	GRAY/WHITE STRIPE		
Note: Can Unused Wires with a Wire Nutl			

Note: Cap Unused Wires with a Wire Nut!

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

