SYNAPSE WIRELESS
DIM10-087-06-A

Powered by SimplySnap

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, Title 24, DLC NLC Indoor/Outdoor, and other energy requirements today and in the future.

PRODUCT 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

IEC 62386 DALI-2 Certified – D4i

- DALI-2 Certified DATA Bus – Part 101
- DALI-2 /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
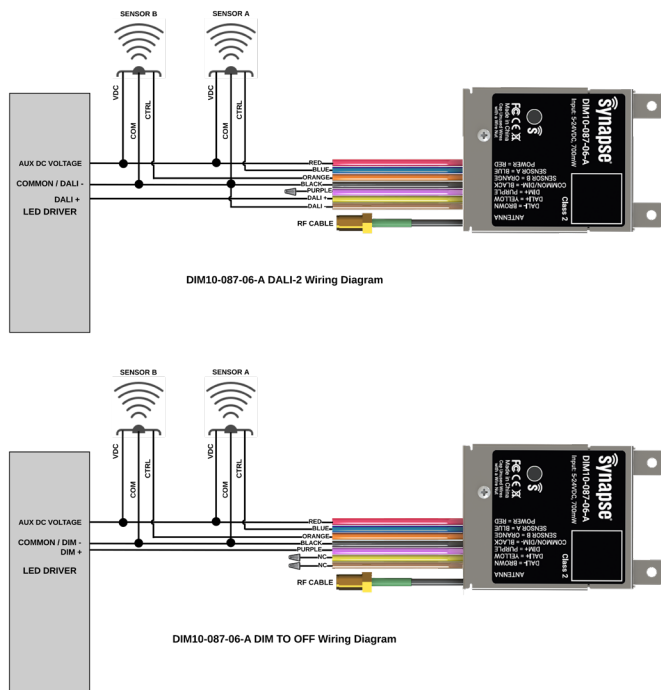
DIM to OFF LED Drivers

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

FUTURE DALI-2 ENHANCEMENTS

- Luminaire Run Time - Part 253
- Luminaire Model Data - Part 251
- LED Driver Model Data – Part 102
- Surge Detection - Part 253
- Over Temperature Counters - Part 253
- Over Current Counters - Part 253
- White Color Tuning
- Diagnostics and Alerts – Part 253

DIM10-087-06-A DALI-2 Wiring Diagram

DIM10-087-06-A DIM TO OFF Wiring Diagram

SPECIFICATIONS

Dimensions	See Mechanical Datasheet for Engineering dimensions
Input Power	5 to 24V DC
Max Current Draw	140mA @ 5V
IP Rating	IP30
Temperature	-40°C to +85°C (-40°F to +185°F)
Dimming	0-10V, 10mA (Max)
DALI-2	Limited to 4 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; CE; FCC/IC; DLC - Indoor/Outdoor; DiiA - DALI-2 Certification
Warranty*	5 Years

* See www.synapsewireless.com/warranty for warranty terms

SIGNAL/WIRE COLORS

Signal	Wire Color
DALI +	Yellow
DALI -	Brown
Sensor Input B	Orange
Sensor Input A	Blue
Power	Red
DIM +	Purple
Common/DIM -	Black

Note: Cap Unused Wires with a Wire Nut

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
ANT-OSS-5.1	Stubby Antenna, Outdoor Straight

SIMPLYSNAP SITE CONTROLLER - Required for all deployments

Central Base Station SS450-based Model with 5-button switch and NEMA 4x enclosure.

StressCrete® GROUP

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SPARTAN SPORTS LIGHTING