

| Specification Data | |
|--------------------|--|
| Job Name | |
| Type | |
| Catalog # | |
| Comments | |

PRODUCT OVERVIEW

The DIM10-087-06-IP 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-IP 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
- IP66 rated for indoor and outdoor applications

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

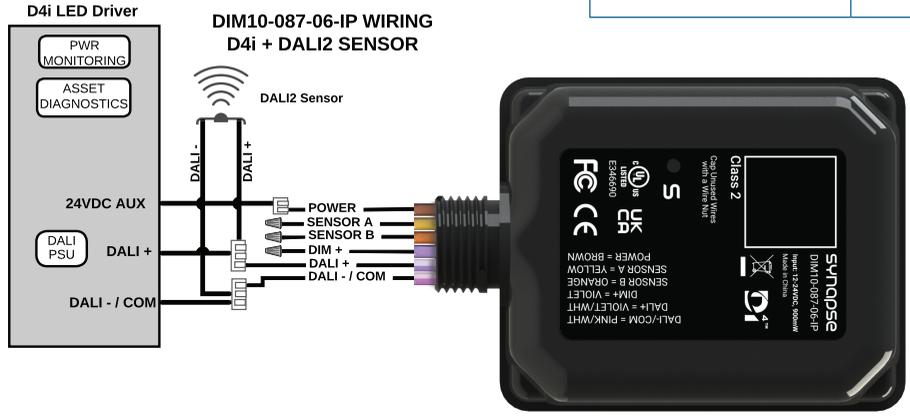
| | | |
|------------------------------------|--|---------------------|
| Dimensions | 3.7" x 2.8" x 0.9" | |
| | See Mechanical Datasheet for Engineering dimensions | |
| Input Power | 12-24 VDC +/- 10% , 900mW max | |
| Temperature | -40°C to +80°C | |
| IP Rating | IP66 | |
| Wire Size | 18AWG, 7" Wires, 600V | |
| Dimming | 0-10V, 10mA Souce/Sink (Max) or D4i Dimming | |
| D4i LED Drivers¹ | Limited to 4 D4i LED Drivers | |
| Sensor Input Specifications | Analog: 0-10V | Software selectable |
| | Digital: 0-24V | |
| Radio | SNAP 2.4GHz ; 802.15.4 +20 dBm Transmit Power -103 dBm Receive Sensitivity | |
| Certifications | c(UL)us; FCC/IC; CE; UKCA; DLC- Indoor/Outdoor; DALI-2 - D4i Certification | |
| Warranty² | 5 Years | |

1. 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 |
|-----------------|---|
| DIM10-087-06-IP | Board in IP66 Case with Wires, internal antenna |



Note: Deployment is for inside fixtures only.
Do NOT use in a fixture-to-fixture design.

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

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

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>