LED GATEWAY 3Q INSTALLATION

The smartengine LED gateway 3Q controls and dims smartengine ready 3rd-party LED light fixtures, and transmits smartengine sensor data back to the smartengine. The gateway communicates with and is powered by the smartengine through a single channel, and connects to up to four smartsensor pods via category cable.

In addition, the gateway can also be wired to an electrical light switch with 18 AWG (1mm) wiring to enable manual lighting control. The gateway is plenum-rated and can be installed in the ceiling near the fixture as required.

ORDERING INFORMATION

PART NO.	DESCRIPTION
GW-3Q-GNEW1350	LED Gateway, Generation 3, four sensor, one channel, 350–499 mA fixture
GW-3Q-GNEW1500	LED Gateway, Generation 3, four sensor, one channel, 500–700 mA fixture
GW-3Q-SENSOR00	LED Gateway, Generation 3, four sensor, one channel, sensor only

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IMPORTANT

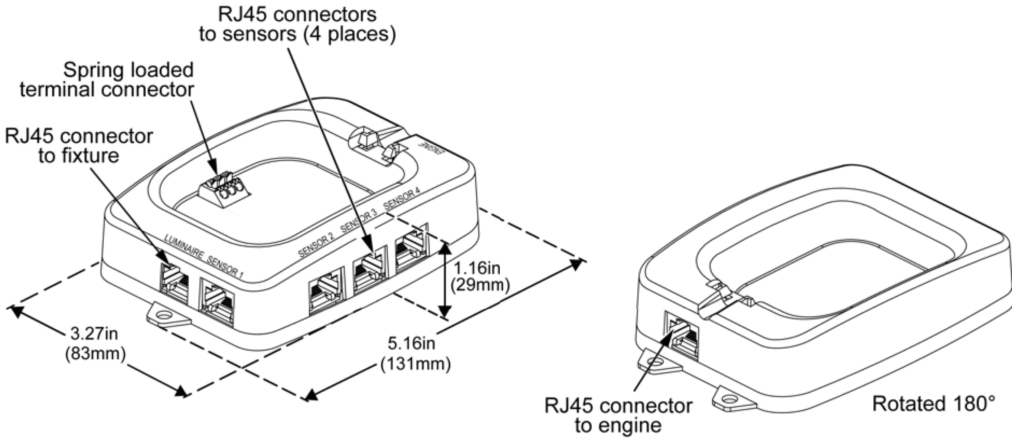
▪ Do NOT place the LED gateway in a location where ambient temperature may exceed 50°C.

▪ The LED gateway has been tested by UL to UL2043 which ensures low smoke-emitting characteristics and suitable fire resistance for equipment that may be installed in environmental air-handling spaces, as described in Article 300.22(c) of the NEC (2008).

▪ When the LED gateway is installed in air-handling spaces, such as above some suspended ceilings, the cabling employed should be suitable under NEC (2008) Article 800.154 and marked accordingly for use in plenums and air-handling spaces with regard to smoke propagation, such as CMP. The products and wiring should be installed in accordance with all applicable local regulations and practices.

▪ Connect the LED light fixture, the smartsensor pod(s), and the engine channel as indicated on the LED gateway – see diagram below.

GATEWAY COMPONENTS AND DIMENSIONS



PREPARATION

1. Determine the location for the LED gateway, the sensor pod(s) and the LED light fixture.

2. Run category cabling from the engine to each gateway location.

3. For lighting installations, note that the sensor pod connected to the port labeled SENSOR 1 will control the LED light fixture connected to the port labeled LUMINAIRE.

4. Install LED light fixtures according to vendor's installation instructions.

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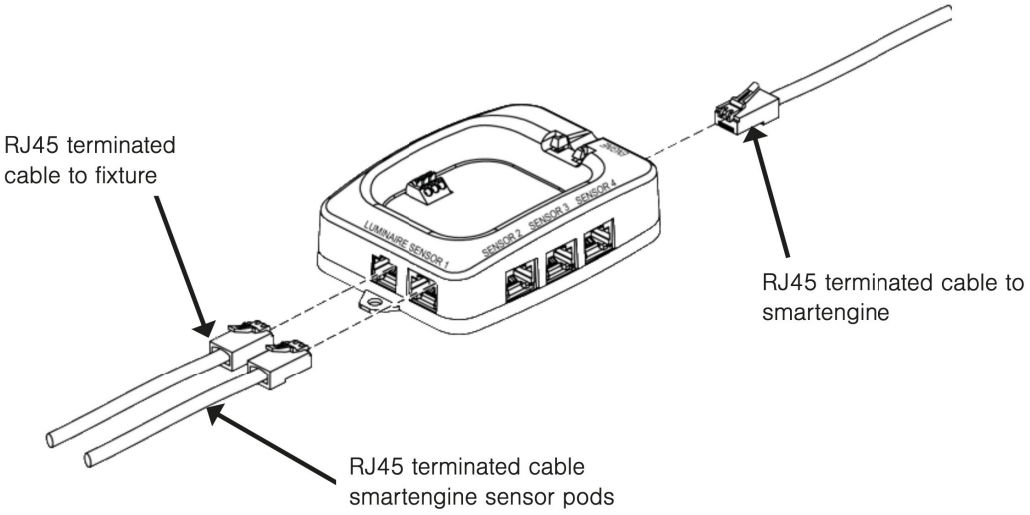
INSTALLATION

Step 1 - Connect smartsensor Pod(s), LED Light Fixture, and smartengine to LED Gateway



1. Connect the smartsensor pod(s) to the LED gateway ports labeled SENSOR1, SENSOR2, SENSOR3, and SENSOR4.

Note: The smartsensor pod connected to the port labeled SENSOR1 will control the LED light fixture connected to the port labeled LUMINAIRE.

2. Connect the LED fixture to the LED gateway port labeled LUMINAIRE.

3. Connect the smartengine to the LED gateway port labeled ENGINE using category cabling.

Step 2 - Mount LED Gateway

1. The LED gateway should be securely mounted to part of the building structure that does not exceed the mechanical specifications for the gateway.

2. For drop wire mounting, the Caddy® multi-function Z-Clip, Part #170650, Description 4Z34 is recommended. Z-Clip supports #10-24 and 1/4-20 threaded bridle rings and attaches to #12 wire through ¼" rod as shown.

3. Note that the gateway must be within 6 feet (2m) of each connected sensor.

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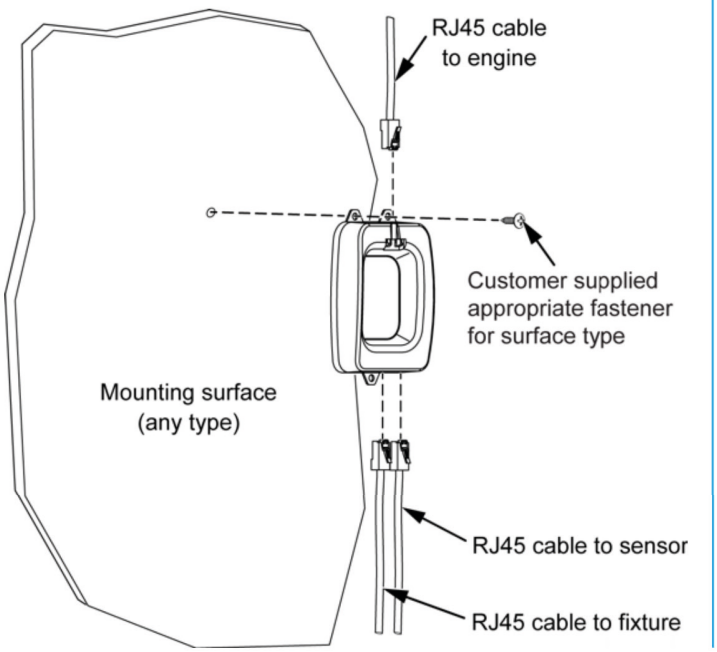
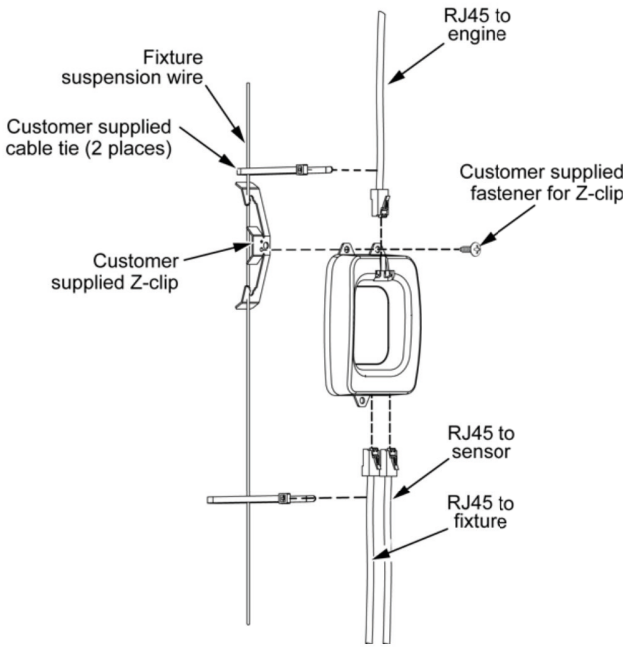
INSTALLATION

SURFACE MOUNTING OPTION



DROP WIRE MOUNTING OPTION



Optional Step - Connect Gateway to Light Switch

The gateway may be connected to a single-pole, single-throw (SPST) electrical light switch using 18 AWG (1mm) wire. When connected to an individual gateway in a designated room, the switch will control all the light fixtures in that room manually.

Important: This is not an option for the smartengine dimmer or scene control wall switch.

PREPARATION

1. Determine location for the wall switch and associated LED gateway.

2. Run two low-voltage 18 AWG (1mm) cables from gateway to wall switch location.

Note: It is recommended to use jacketed 18/2 solid core bell wire for this application.

3. Strip 1/4" (6mm) of insulation from the end.

4. Cut or use an existing standard-sized wall plate opening for a NEMA standard, OTS electrical switch box with an open back.

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INSTALLATION

1. With the light switch in the ON position, run 18 AWG (1mm) cable from the light switch to Port C on the gateway and the remaining end to either Port A or Port B.

2. Install the faceplate on the switch

REGULATORY COMPLIANCE/CERTIFICATIONS

Agency	Classification
RoHS 2011/65/EU	Compliant

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