DLA-M-E

Micro Digital Lightelligence Agent Sensor

Date: _____

Quantity: _____

Company: _____

Project: _____

The **DLA-M-E** brings wireless sensing, control, and compatibility with the SiteWorx suite of applications, to third-party luminaires via an unobtrusive and easily mounted form factor.

SiteWorx Application

- SiteWorx Tune

Key Features & Benefits

- Brings the power of SiteWorx® to third-party luminaires using smart DALI control

- Continuous dimming (on supported drivers) and utility-grade power metering

- Simple, enhanced DALI wiring that doesn't require a separate power supply (on supported drivers)

- Enhanced micro-lens allows for mounting up to 6.1 m (20 ft) above finished floor

- Small, unobtrusive form factor and simple mounting methods make the DLA-M-E perfect for commercial environments

- Enables SiteWorx® Tune application to optimize your lighting and reduce energy use

- Incorporates and extends the SiteWorx wireless mesh network

SiteWorx

Specifications

SENSING AND CONTROL

Lighting Control Insights
- Enables wireless sensing and control of third-party luminaires

Sensing
- Integrated Passive Infrared (PIR) Sensor for occupancy detection. Occupancy information is collected and movement is detected within the sensor coverage area. The sensor cannot detect or report any Personality Identifiable Information (PII)
- Integrated Photocell Sensor for daylight harvesting strategies to raise or lower light output based on available daylight
- SR/ DEXAL driver-ready

Lighting Control
- Provides On/Off and precise 0% to 100% dimming for third-party 0-10V luminaires
- Fully enables SiteWorx Tune lighting control capabilities, including task tuning, daylight harvesting, scheduled and automatic setback, and coordinated control

Network Communication
- SiteWorx Wireless Mesh Network IEEE 802.15.4 enabling SiteWorx Sense Smart Devices cloud communication

Technology Platform
- Incorporates and extends the SiteWorx wireless mesh network

PERFORMANCE

Device Limit
- Up to (4x) DLA-FA or DLA-CA adapters, or (16x) DALI[1], SR[2], or DEXAL[2] drivers

ELECTRICAL

Input Voltage
- 12 to 24 VDC, DALI bus powered (SELV)

Power Consumption
- 0.3 W

Control Wires
- Yellow/White: DALI +
- Yellow: DALI -

ENVIRONMENTAL

Operating Temperature
- -30˚ to 50˚C (-22˚ to 122˚F)

Operating Humidity
- 0% to 95%, non-condensing

PHYSICAL

Enclosure
- PC/ABS Polymer

Dimensions (H x W x D)
- 23.7 x 33.3 mm (0.93 x 1.31 inches)

Weight
- 14 g (0.5 oz)

Mounting Options
- Drop Ceiling Mount (pre-installed with self-retaining clip)
- Luminaire Mount (pre-installed with self-retaining clip)
- Surface Mount (via adhesive)

Surface-Mount Hole Diameter
- PG-7 (0.5 inch) trade-size knockout (2.5 mm (0.1 inch) maximum panel thickness)

Mounting Height
- Up to 6.1 m (20 ft)

WARRANTY
- 5-Year Limited

CERTIFICATIONS & SAFETY

Approbations
- ETL, CE, UKCA, FCC Part 15 Class B, CISPR 22

Environmental Suitability
- IP50

SiteWorx Tune

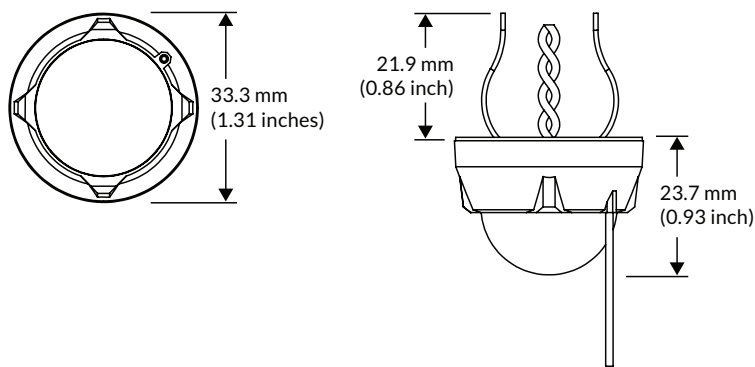# Ordering Information

Part Number
DLA-M-E

Footnotes:

[1] DALI drivers require a separate DALI power supply in order to power the DLA.

[2] With SR and DEXAL drivers, to prevent damaging the DLA, ensure that no more than (1x) driver has the power bus enabled.
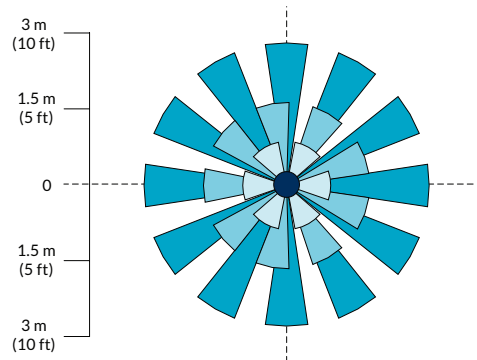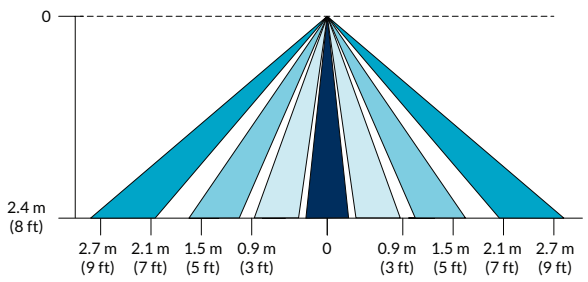
Dimensions

33.3 mm
(1.31 inches)

21.9 mm
(0.86 inch)

23.7 mm
(0.93 inch)

Sensor Coverage

Standard Optic

Top View

3 m
(10 ft)

1.5 m
(5 ft)

0

1.5 m
(5 ft)

3 m
(10 ft)

Side View

0

2.4 m
(8 ft)

2.7 m
(9 ft)   2.1 m
(7 ft)   1.5 m
(5 ft)   0.9 m
(3 ft)   0   0.9 m
(3 ft)   1.5 m
(5 ft)   2.1 m
(7 ft)   2.7 m
(9 ft)

Wiring Diagrams

DALI Wiring

DLA-M-E

Line

Neutral

DALI Bus Supply (Third-Party)

DALI –
DALI +

Line

AC In

Neutral

DALI LED Driver (Third-Party)

DALI   –
        +

DC Out   –
         +

To LEDs

Connect with up to three (3X)
additional DALI Drivers
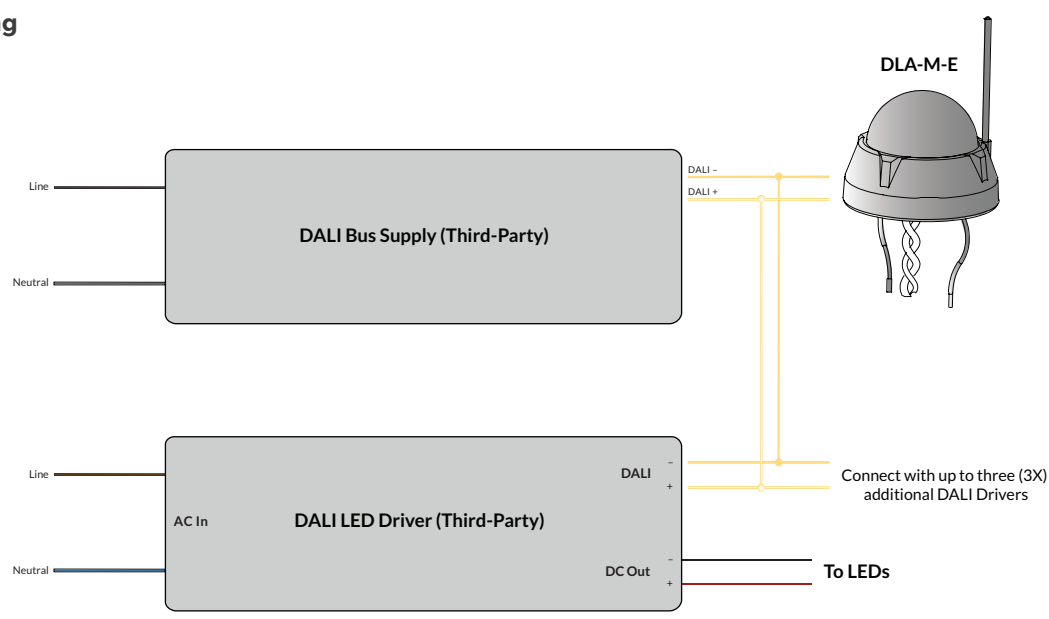
NOTE: See Installation Instructions for additional wiring methods.

Wiring Diagrams (cont.)

Sensor Ready Wiring

DLA-M-E

DALI –
DALI +

Line

DALI —
            +
AC In   **DEXAL Driver**

DC Out —
       +   **To LEDs**

Neutral

With SR and DEXAL drivers, to prevent damage to the DLA, ensure that no more than (1x) driver has the power bus enabled.

0-10V Wiring

DLA-M-E

Line

DALI –
DALI +

Neutral   **DLA-CA**

Switched Line

0-10 VDC +
0-10 VDC –

Connect with up to three (3X) additional DLA Adapters

Dimming

0-10 VDC Dimmable LED Driver

Neutral   AC In
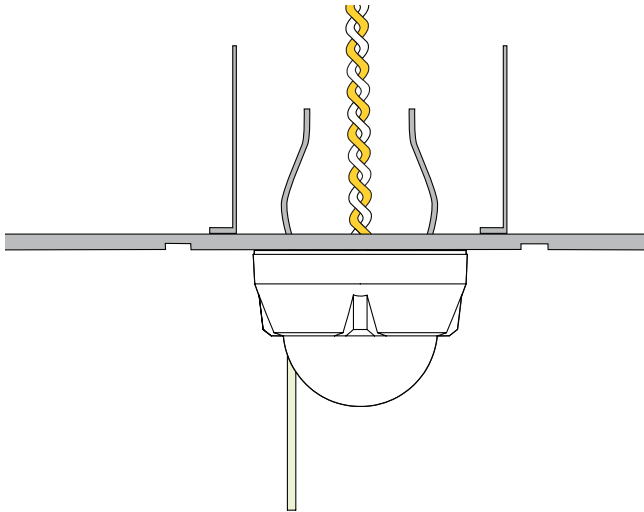
DC Out —
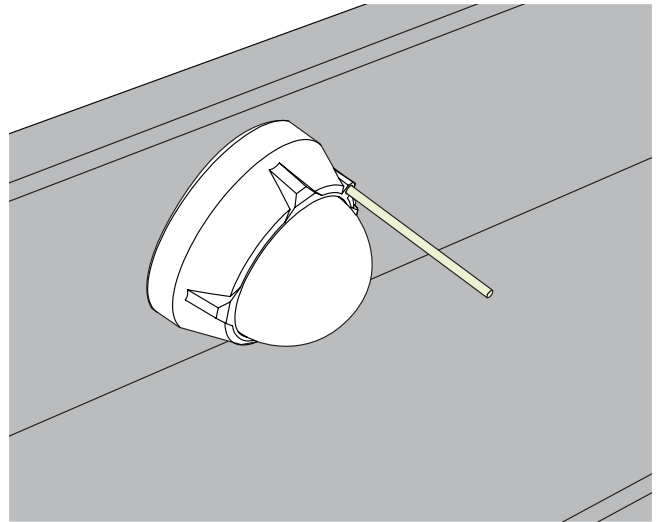   +   **To LEDs**
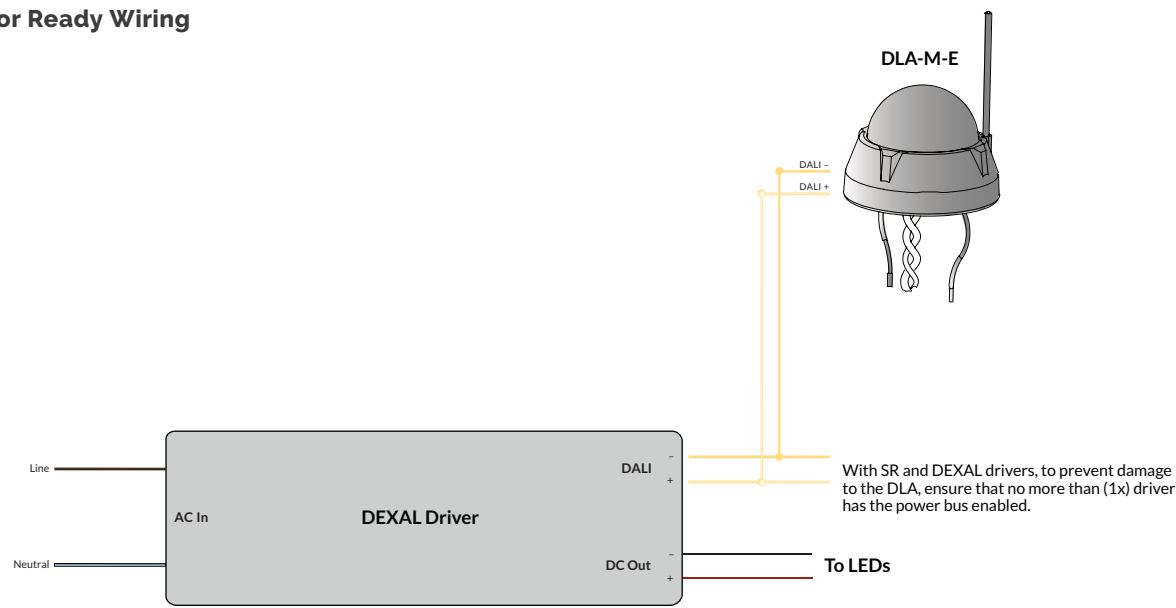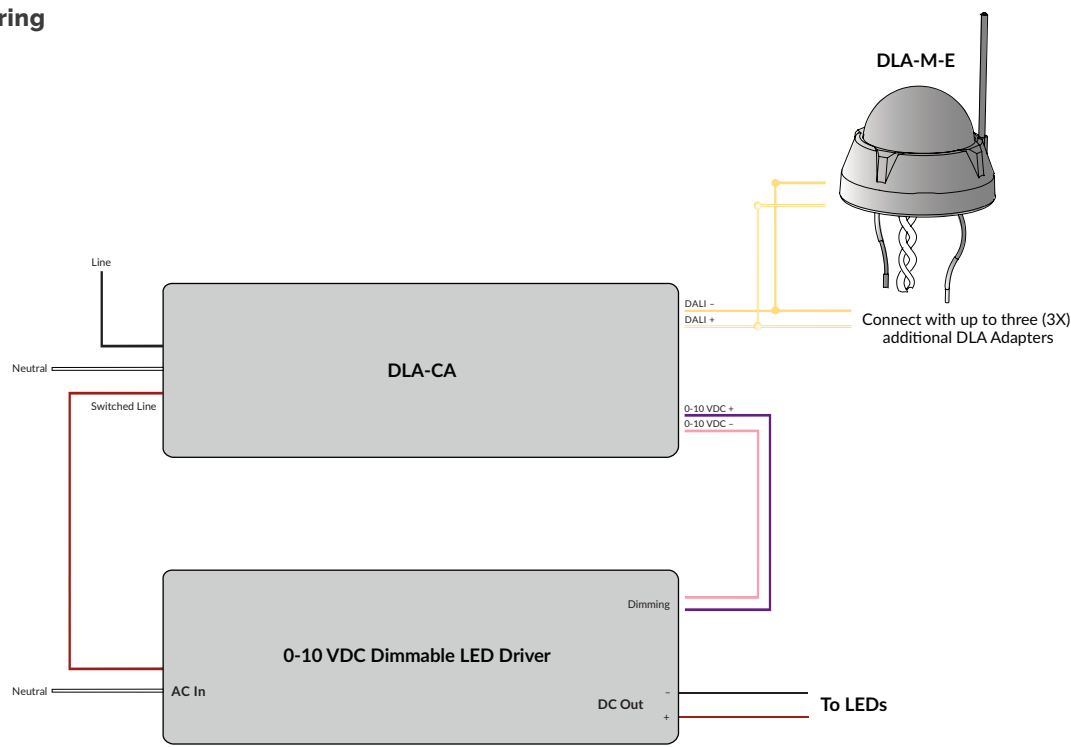
Mounting Options

Drop Ceiling Mount

Luminaire Mount

Surface Mount

DOC-001516-00 Rev G 08-24