Project		Catalog #		Type	
Prepared by		Notes		Date	

Trellix

Outdoor Multisensor (OMS)

Multimodal Outdoor Sensor

TI-8135-OMS-D4i

Interactive Menu

Product Certifications

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DALI 2

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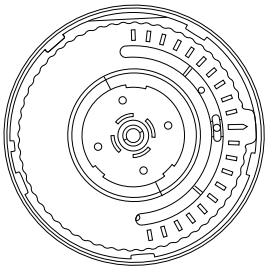
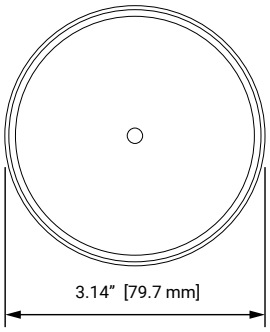
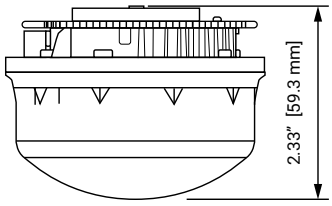
Quick Facts

- Designed according to IEC 62386-103 Multi-Master Control Devices and to IEC 62386-303 Input devices and to DALI Part 351 Luminaire-mounted Control Devices as a Type B device
  The Multisensor contains:
  - Motion sensing (RADAR based)
  - Daylight sensing
  - Ambient noise sensing
  - Ambient temperature sensing
  - Vibration sensor
  - Impact sensor
- Contains a LED to report its status after power-up and to show its location during blink
- Contains a radio that can be used to group luminaires and to light-up the road ahead
- The OMS requires a Zhaga-D4i certified luminaire or a remote sensor mounting kit for operation
- Contains a rotatable base that can be used to direct the motion detection area

Dimensional Details







Ordering Information

SAMPLE ORDER NUMBER: **TI-8135-OMS-D4i**

Catalog Number	Description
TI-8135-OMS-D4i	Outdoor Multisensor (OMS) Philips LRI8135/00, Zhaga Book 18, 15-24Vdc, Smoke Gray
Note	
Outdoor Multisensor (OMS) requires D4i driver and Zhaga Book 18 socket for operation. Please verify these fixture requirements prior to ordering.	

SAMPLE ORDER NUMBER: **TI-8135-OMS-TLT-10YR**

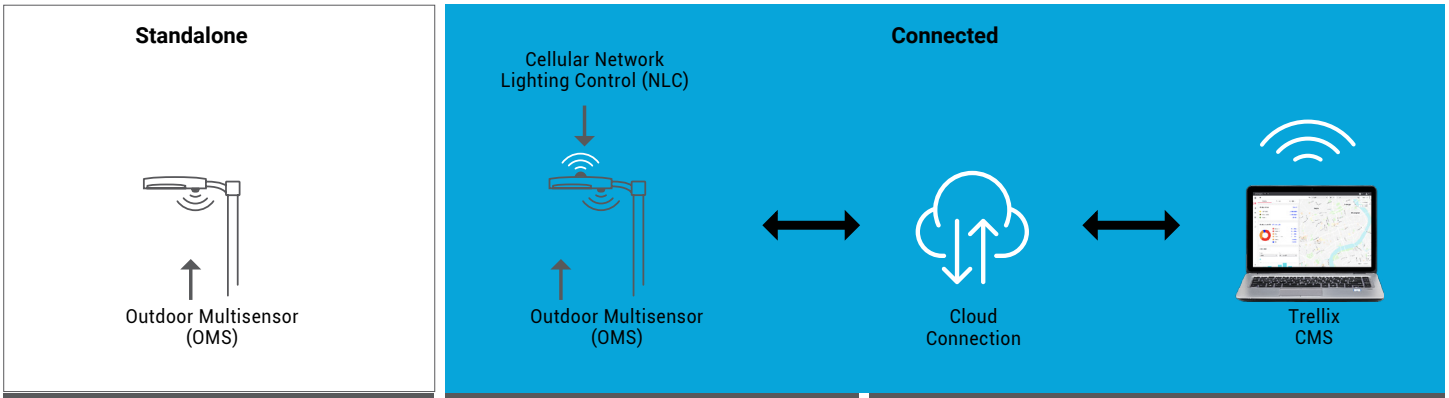
Order one or more of the following subscription services for connected data along with the sensor hardware:

Catalog Number	Description
TI-8135-OMS-LOD-10YR	OMS Sensor Light on Demand Connected Data-1YR SAAS
TI-8135-OMS-TLT-1YR	OMS Sensor Safety Vibration Connected Data-1YR SAAS
TI-8135-OMS-TLT-10YR	OMS Sensor Safety Vibration Connected Data-10YR SAAS
TI-8135-OMS-NSE-1YR	OMS Sensor Noise Connected Data - 1YR SAAS
TI-8135-OMS-NSE-10YR	OMS Sensor Noise Connected Data -10YR SAAS
TI-8135-OMS-TMP-1YR	OMS Sensor Temperature Connected Data -1YR SAAS
TI-8135-OMS-TMP-10YR	OMS Sensor Temperature Connected Data -10YR SAAS
Note	
SaaS fees apply for each sensor mode optionally and can be selected individually or in combination. SaaS subscription is not required when the sensor is used in "stand alone" mode for "light on demand' sensing.	

Note: For these features, you must order the sensor, a Trellix cellular node, and associated cellular data plan; see the referenced documents for details.

Smart Sensor System Solutions

Three system options available to meet your needs.



Standalone

Light Detection · Motion and Occupancy

- Light On-Demand
- Dusk-Till-Dawn
- Grouping (local radio)
- Mobile APP

Connected Basic

Light Detection · Motion and Occupancy

- Light On-Demand
- Grouping (local radio)
- Mobile APP
- Celluar NLC (Trellix)
- UNB NLC (Telensa) Future

Connected Advanced

Light Detection · Motion and Occupancy · Noise Levels · Impact & Vibration · Ambient Temperature

- Light On-Demand
- Grouping (local radio)
- Mobile APP
- Celluar NLC (Trellix)
- Ambient Noise
- Ambient Temparature
- Safety Notification (Impact & Vibration)

Product Specifications (Philips LRI8135/00)

Dimensions
- Height: 2.33 in (59.3 mm)
- Diameter: 3.14 in (79.7 mm)
- Weight: 0.26 lb (0.12 kg)

Housing
- Color: Transparent smoke gray
- Material: Polycarbonate

Temperature characteristics
- Operating temperature: -40 to 158°F (-40 to 70°C)
- Storage temperature: -40 to 176°F (40 to 80°C)
- Storage Relative humidity: 0 to 100% non-condensing

Lifetime
- 90% survivals after 11.5 years continuous operation (100,000 hours)

Degree of Protection
- Ingress protection: IP66
- Impact resistance: IK08

Supply
- Supply Voltage: 24 V ± 10%
- Supply current: .015 A
- Supply power: .36 W

Control interface
- Control method: DALI2, D4i
- Intra-luminaire DALI bus: IEC62386-101

Surge immunity
- Power supply (common mode) 6 kV acc. IEC61000-4-5. 2 Ω, (common mode) 1.2/50 µs, 8/20 µs
- Control surge 30 V acc. IEC61000-4-5. 40 Ω, (differential mode) 1.2/50 µs, 8/20 µs

Radar Motion Sensor
- Mounting height: 10 TO 40ft (3 to 12m)
- Max. detection distance: 50 ft. (15 m) for pedestrians and cyclists, 100 ft. (30 m) for cars *
- Max. detection speed: speed 90 mph (145 km/hr)
- Radar frequency: 24 GHz
- Transmit power: 12 dBm
- Beam width: 80°/34°
- Rotation: -82.5° to 82.5°
- Direction: Approaching, receding, any
- Sensitivity: 0 to 34 dB

Local Network
- Technology Local mesh radio network ** : mesh radio network radio network **
- Radio frequency 2.4 GHz: .4 GHz
- Radio transmit power 8 dBm: dBm
- Radio range (max. pole distance): 100ft (30m) line of sight

Light Sensor
- Range: 9 to 50 FC
- Accuracy: 1 FC

Vibration Senor ***
- Range: -90° to 90°
- Accuracy: 2°
- Default installation tilt angle: 0°
- Default threshold to trigger alarm: 20°

Impact sensor ***
- Range: 1 to 10 G
- Accuracy: 0.5 G
- Default threshold to trigger alarm: 3G

Noise sensor ***
- Range: 60 to 120 dBA
- Accuracy: 3 dBA

Temperature sensor ***
- Range: -40 to 158°F (-40 to 70°C)
- Accuracy: 40°F (5°C)

Certificates and Standards
- Approval markings: CE, UKCA, UL
- Standard for Safety: UL 916
- Certificate: DALI2, Zhaga-D4i

Sustainability
- RoHS directive: 2011/65/EU
- REACH directive: 2006/1907/EC

Radio Equipment Directive 2014/53/EU
- Safety: EN 61347-1:2015 EN 61347-2-11:2001
- EMC: ETSI EN 301 489-1 V2.1.1 ETSI: EN 301 489-17 V3.1.1
- Exposure: EN 62311: 2008
- Radio: ETSI EN 300 328 V2.1.1
- Radar: ETSI EN 300 440 V2.1.1

FCC-ID
- Radio: QOQBGM13P
- Radar: 2ASYV-K-LD2

IC-ID
- Radio: 5123A-BGM13P
- Radar: 24358-KLD2

Warranty
- Five-year limited warranty. Contact Cooper Lighting Solutions sales and technical support for details: trellixinfrastructuresupport@cooperlighting.com

* See Application guide for details.

** The Outdoor Sensor Configurator APP is used to commission and configure an Outdoor Multisensor.

Outdoor Multisensors connect to each other using a mesh radio network.

*** Sensor data only available in Trellix CMS

Stand-alone operation

In a stand-alone deployment, the Multisensor works as application controller. The sensor can be configured via the Philips Outdoor Sensor Configurator mobile application available on GooglePlayStore.

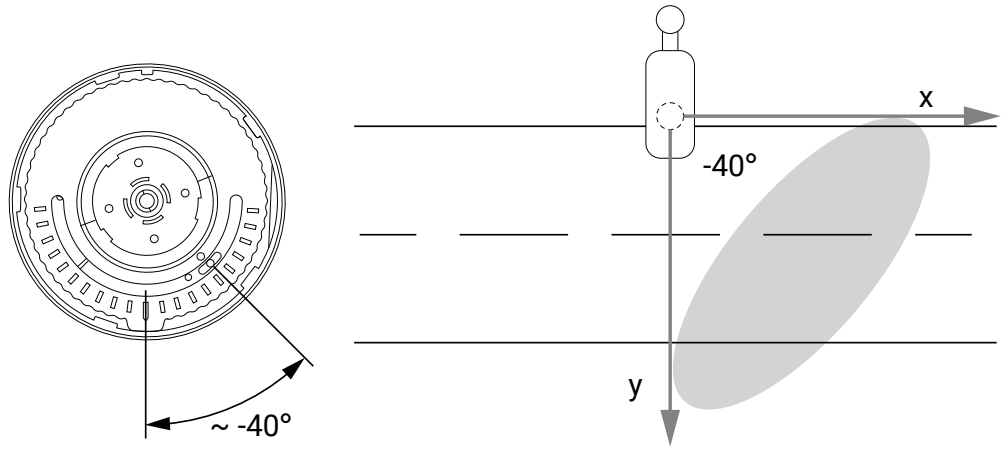
Out of the box functionality:

- Mode: Photocell and motion
- Light-on level: 100%
- Hold time: 5 min.
- Background level: 50%
- Cut off: Disabled
- Sensitivity: 34 dB
- Direction: Approaching
- Switching level: 9 FC
- Hysteresis: 5 FC

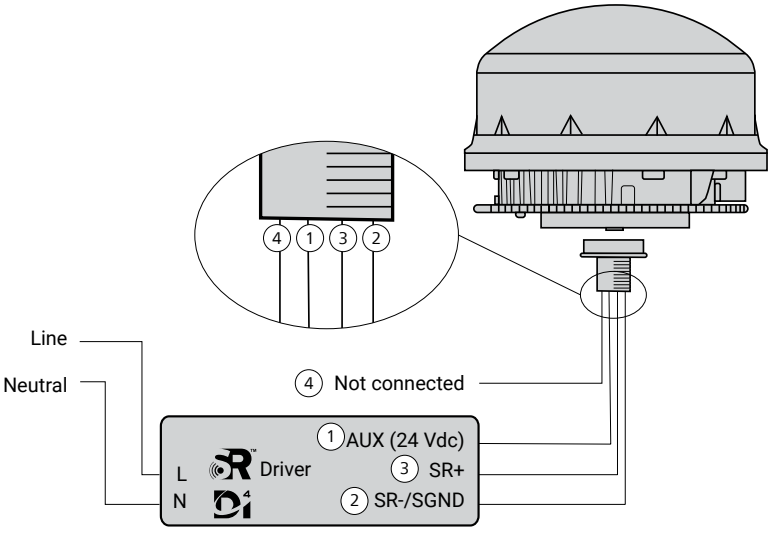
Connected operation

- In a connected deployment, the Multisensor works as input device. The sensor can be configured via the mobile App and via the Trellix CMS lighting management system.
- The Multisensor works together with Type A D4i certified control devices.

Default Rotation and Detection Area



Wiring Diagrams



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