



# LUMAWISE MOTION SENSOR LOGIC OUTPUT

## Streetlighting Motion Sensor

The LUMAWISE Motion Sensor Logic Output is an analog version of TE Connectivity (TE)'s popular LUMAWISE Motion sensor designed for streetlighting. When paired with a Networked Lighting Controller, NLC (not included), helps enable energy savings from dimming the luminaire, while still being able to react to motion and bring a luminaire to a higher brightness for safety and security reasons.

LUMAWISE Motion Sensor Logic Output is powered from a NLC and will provide it with a high signal upon detecting motion. In turn the NLC can then send the appropriate 0V-10V signal to a driver, controlling the light output. The device also has the capability to provide the NLC with analog ambient light measurements.

### BENEFITS

- Add motion sensing to your analog architecture, via a NLC and downwards facing interface
- Detected motion will cause a dimmed luminaire to brighten providing for energy savings while still having the safety and security of a well-lit area
- Market leading detection zone. From either a rectangular or circular detection zone
- Pluggable device via the 'Z10' interface

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## FEATURES

- Logic output voltage is the same as input voltage for 1 second minimum (voltage drop 1.5Vdc maximum)
- 30mx6m rectangular detection zone (@5m height)
- Ø13m circular detection zone (@5m height)
- Ambient light measurement range: 0 lux-2000lux (wider or narrower range possible upon request)
- Ambient light signal output: logarithmic analog, 0.17-3.14V
- Tested on poles from 5 to 12m high
- Passive Infrared (PIR) motion detection technology
- Detects pedestrians, wheelchair users, runners and cyclists
- Masks available for self-defined detection zone
- Lighting control of the driver from additional NLC
- IP66, IP68 and IK07
- -40°C to 65°C operating temperature range
- -40°C to 32°C and 40°C to 65°C functional detection temperature range. Between 32°C to 40°C a permanent high signal is given
- Pin out:
  - 1: DC+
  - 2: DC-
  - 3: Ambient light measurement analog
  - 4: Motion logic output

## APPLICATIONS

- Street and area lighting
- Cycle and walkway lighting
- Parking lots and garages
- Car dealerships
- High bay lighting

## PRODUCT INFORMATION

Part number	Part description
<a href="#">2445583-1</a>	LUMAWISE Motion Sensor Logic Output: Rectangular detection zone
<a href="#">1-2445583-1</a>	LUMAWISE Motion Sensor Logic Output: Circular detection zone
<a href="#">2396399-1</a>	LUMAWISE Motion Sensor Mask

## MECHANICAL

- Height: 42.0mm
- Diameter: 79.7mm

## ELECTRICAL

- 50mW average power consumption, <30mA average during startup
- Input voltage range: 10Vdc to 24Vdc ±10%

## MATERIALS

- Dome: HDPE and polycarbonate
- Base: PBT

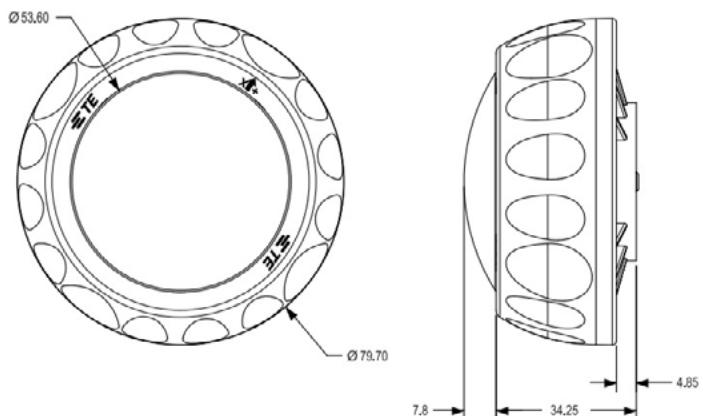
## STANDARDS

- UL773

## SPECIFICATIONS

- Application spec: 114-160647
- Product spec: 108-160647

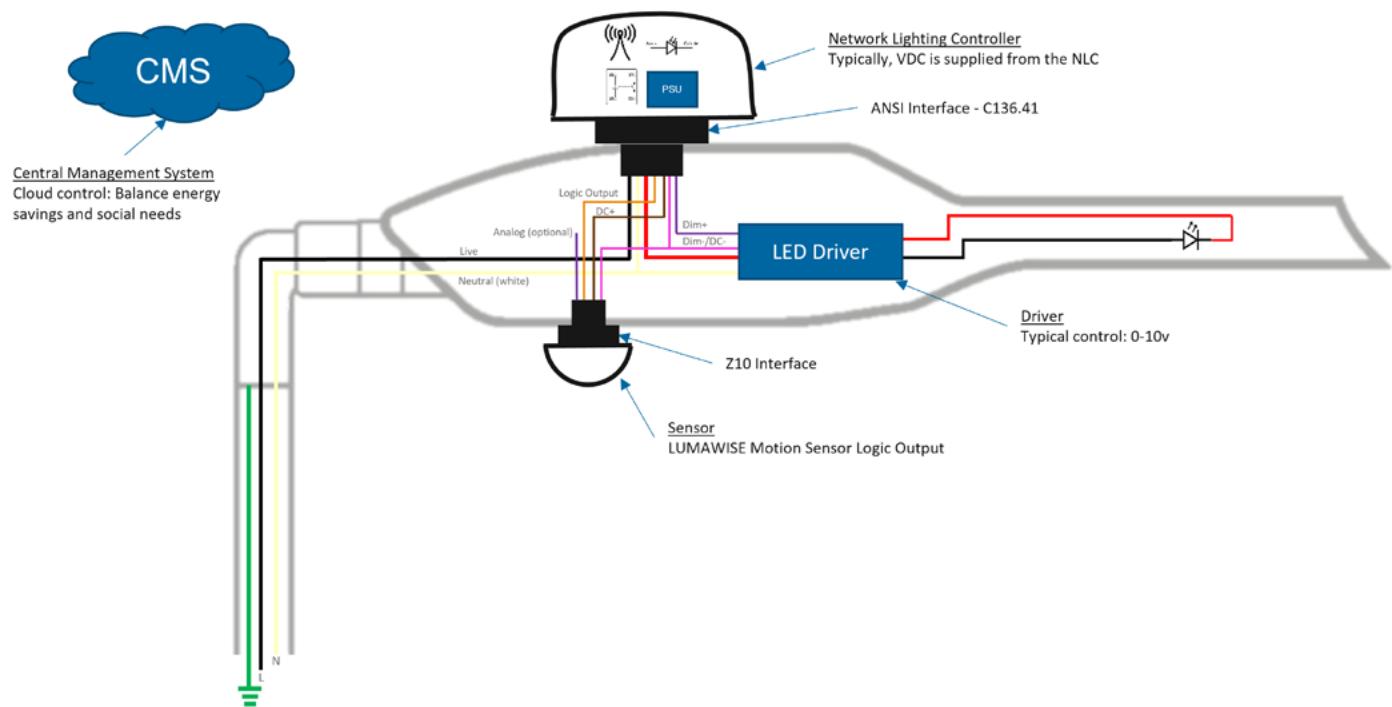
## PRODUCT DIMENSIONS



All dimensions are in mm

# LUMAWISE MOTION SENSOR LOGIC OUTPUT

## WIRING ARCHITECTURE

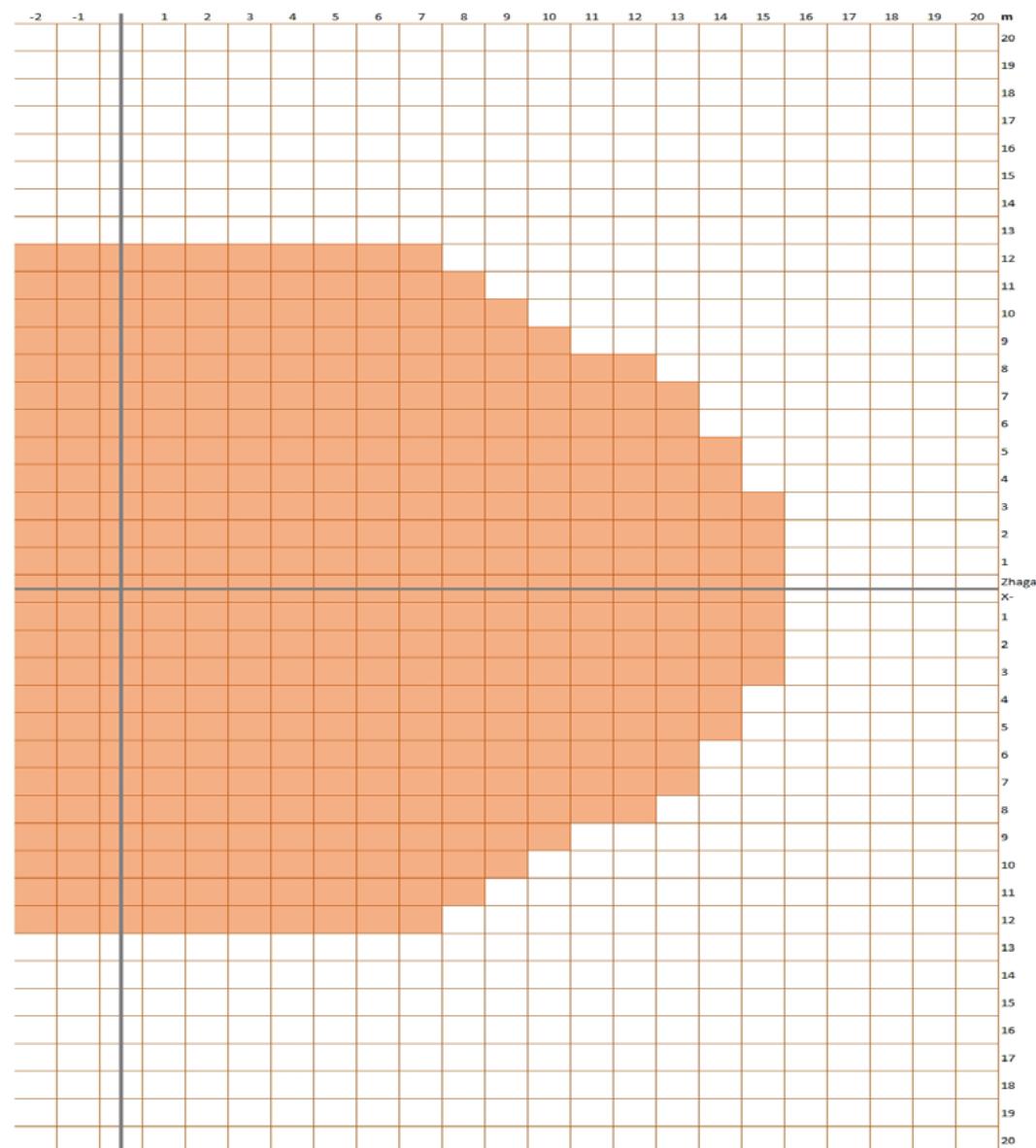


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## DETECTION DIAGRAMS

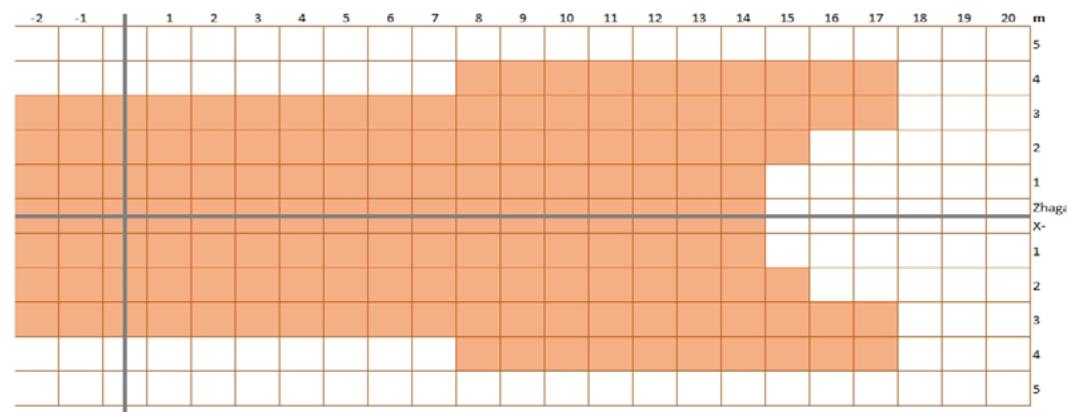
Market Leading Detection Zone

### TYPICAL DETECTION DIAGRAM AT 5M MOUNTING HEIGHT



### Circular Detection Zone

Only one half of detection zone shown



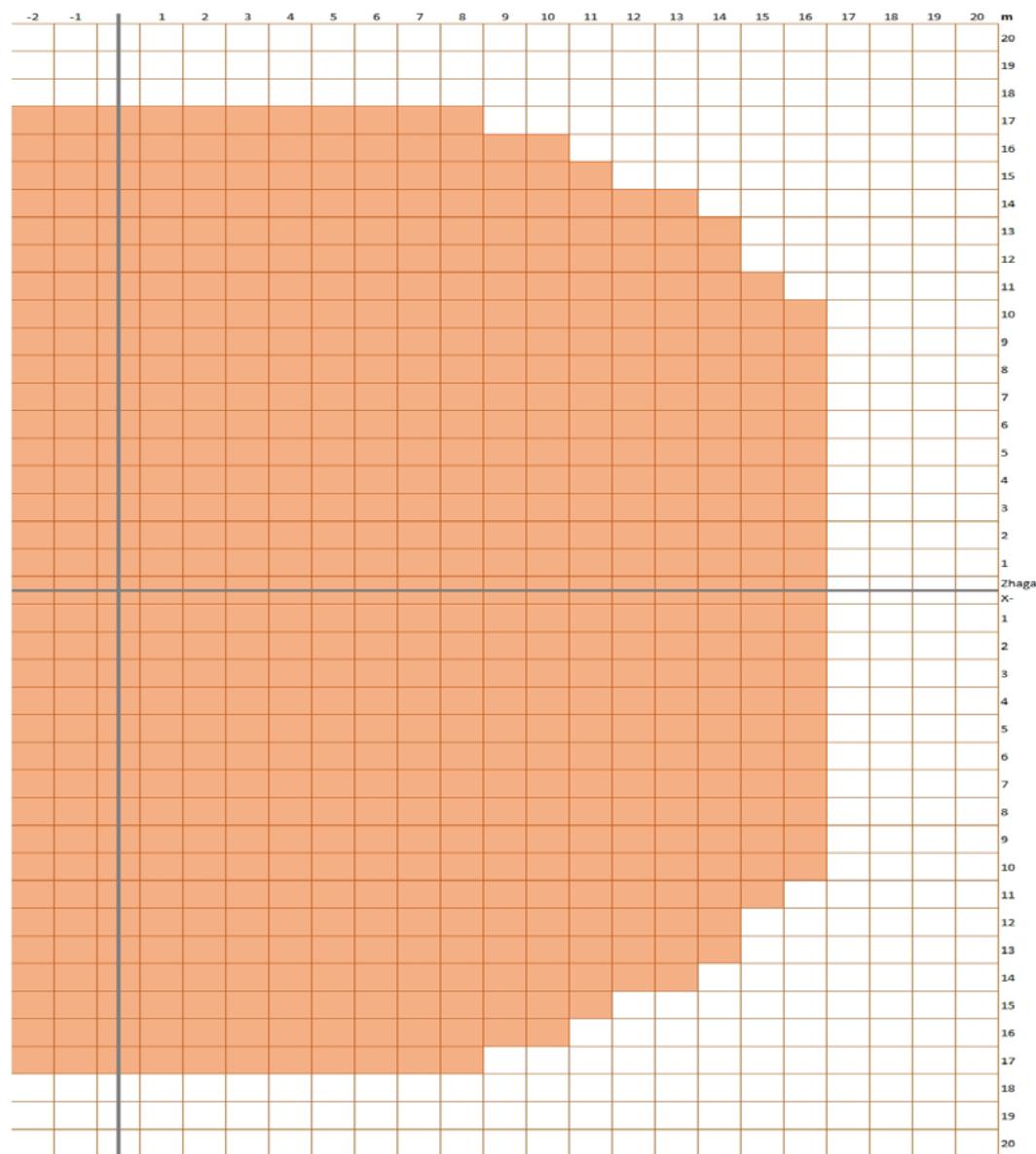
### Rectangular detection Zone

Only one half of detection zone shown

# LUMAWISE MOTION SENSOR LOGIC OUTPUT

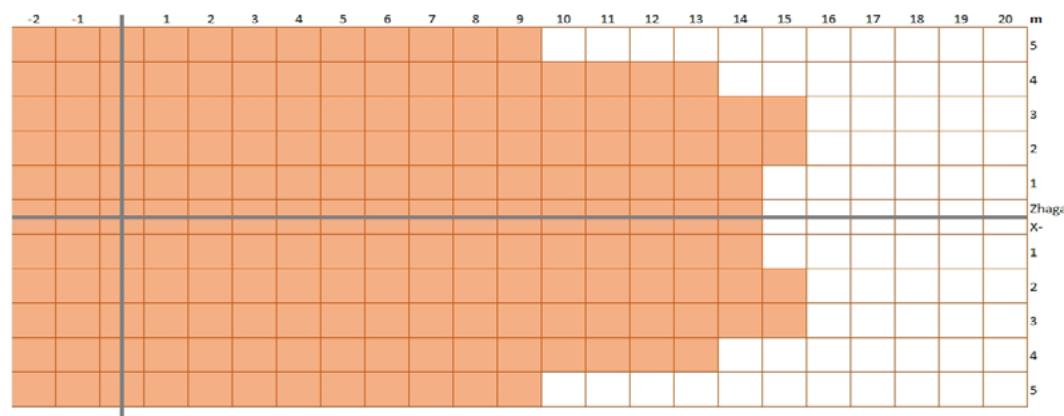
Market Leading Detection Zone

## TYPICAL DETECTION DIAGRAM AT 8M MOUNTING HEIGHT



### Circular Detection Zone

Only one half of detection zone shown



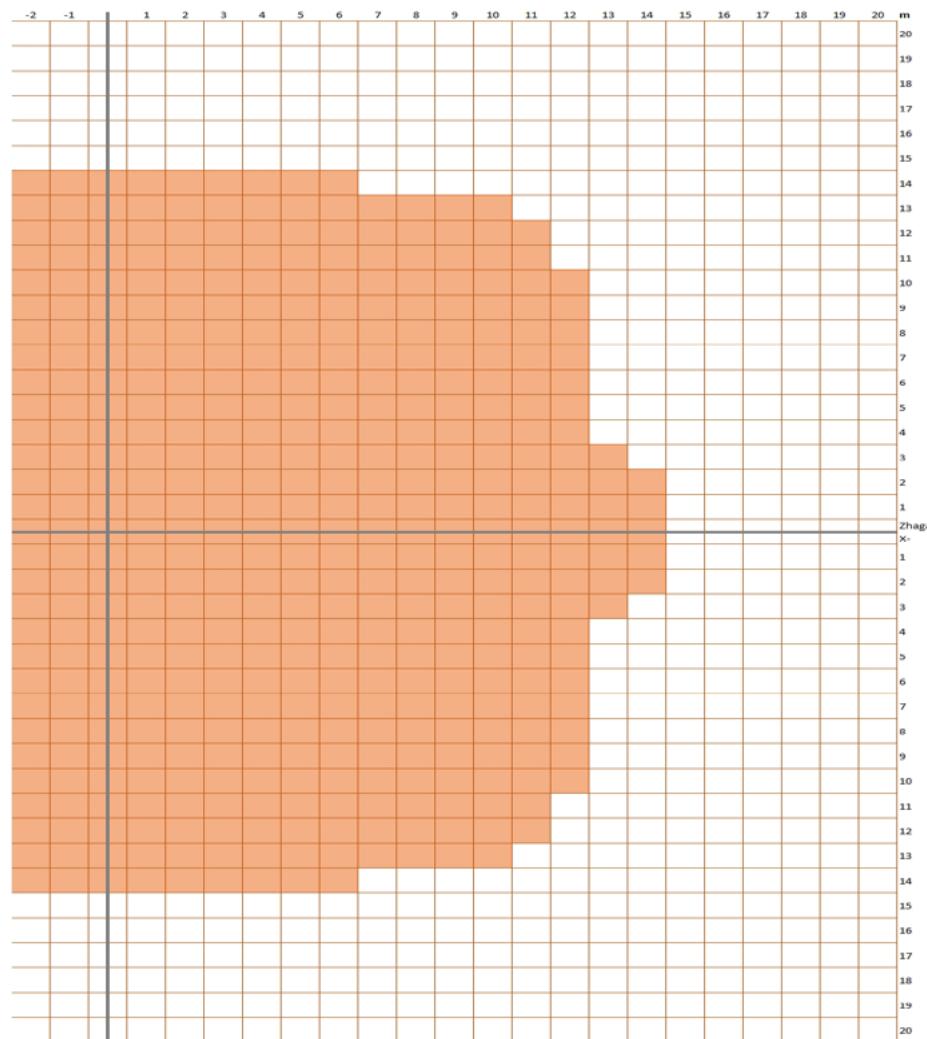
### Rectangular detection Zone

Only one half of detection zone shown

# LUMAWISE MOTION SENSOR LOGIC OUTPUT

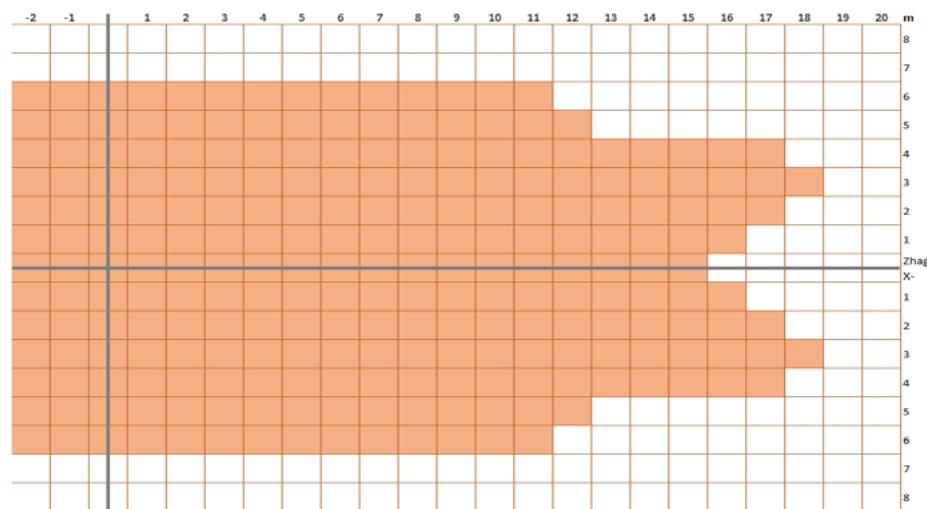
Market Leading Detection Zone

## TYPICAL DETECTION DIAGRAM AT 12M MOUNTING HEIGHT



### Circular Detection Zone

Only one half of detection zone shown



### Rectangular detection Zone

Only one half of detection zone shown

# LUMAWISE MOTION SENSOR LOGIC OUTPUT

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**CONTACT OUR PRODUCT TEAM ►**

[te.com/lumawise-motion-sensor-logic-output](http://te.com/lumawise-motion-sensor-logic-output)

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