



Cyrus AM

AC Powered Wireless Microwave Motion & Light Sensor

















Product Overview

Cyrus AM is a BLE5.2 controllable high bay Microwave motion and daylight sensor. This sensor operates on a 90-277VAC input voltage range adopts a 5.8GHz Microwave sensing technology for accurate motion detection. It can be mounted at a maximum height of 7m(23ft) and provides a maximum detection range of 17m(55.8ft) diameter. The sensor can be mounted to the ceiling or at the surface using ceiling or surface mount accessories.It can be quickly commissioned, configured, and controlled from any mobile device and can be connected to Lumos Controls cloud for data analytics and configuration management.

The Lumos Controls ecosystem comprises controllers, sensors, switches, modules, drivers, gateways, and analytical dashboards. It is listed by the **Design Lights Consortium** (DLC), qualifying it forenergy conservation incentive programs and rebates by utilitycompanies.

Specifications

Electrical

Specifications	Value	Remarks
Input voltage	90-277VAC	
Input current	9mA	9mA@230VAC
input current	25 mA	15mA@90VAC
Frequency	50-60Hz	
Inrush current	4A	
Surge rating	4kV	
Standby current	22mA @110V 14mA @230v	

Environmental

Specifications	Value
Ambient temperature	0-80°C (32 to 176°F)
Case temperature	70°C (158°F)
Relative humidity	20-85%

Features

- High-bay motion and daylight sensor, with mounting height up to 12m(39.4ft)
- BLE 5.2 based non flooding wireless communication
- 90-277VAC universal AC input voltage range
- 5.8GHz Microwave sensor for accurate motion detection
- Motion detection range up to 17m(55.8ft) diameter

Bluetooth

Frequency range	2402-2480MHz	
Max output power	8dBm	Conductive
Receive sensitivity	-95dBm	
Connection distance (device to device)	45m(147ft)	Vary depending on the installation environment

Mechanical

Specifications		Value	Remarks
ے	Excluding accessories	2.3 X 2.5in (59.8 X 63.1mm)	Diameter x Height
Dimension	Ceiling mount accessories WMAM-CMK	3.53 x 2.62in (89.7 x 66.8mm)	Diameter x Height
	Surface mount accessories WMAM-SMK	4.32 x 2.80in (109.8 x 71.2mm)	Diameter x Height
Net weight		85g(3.0oz)	
Case material		ABS Plastic	White
Flammability rating		UL 94 5VA	

Light Sensor

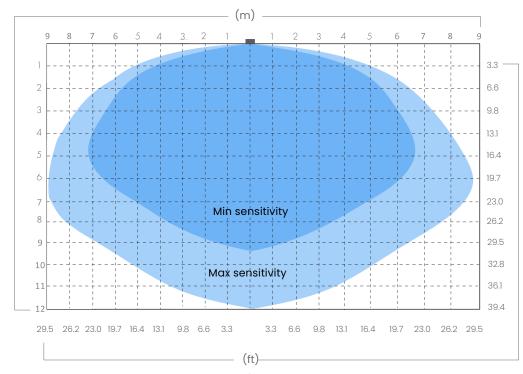
Specifications	Value	Remarks
Dynamic Illuminance range	0 to 2000lux	
Default range setting	19-512lux	User programmable
Illuminance accuracy	±10%	

Microwave Motion Sensor

Specifications	Value	Remarks
Mounting height	13.1-22.9ft (4-7m)	Use 19.8-23ft(6-7m) height for best output
Max detection range	55.7ft (17m)	Diameter, @19.8ft(7m) mounting height
Max coverage area	2732.5sq.ft(254.32sq.m)	Area, @19.8ft(7m) mounting height

Motion Sensor Characteristics

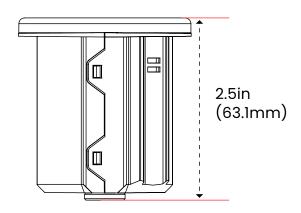
Mounting height

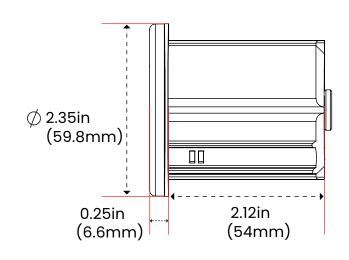


Detection range

Product Dimensions

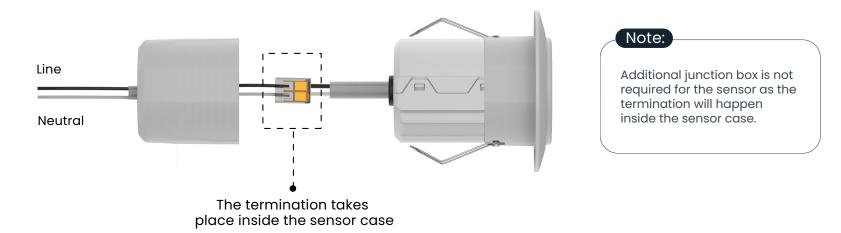
(Excluding accessories)





Wire Description

Cyrus AM is powered via AC supply to communicate sensor data wirelessly with other WiSilica BLE mesh devices.



Pin	Name	Color	Guage	Rating	Description
1	Line	Black	18AWG (0.75mm²)	300V	90-277VAC input line
2	Neutral	White	18AWG (0.75mm²)	300V	AC input neutral

Antenna Information

1) Flat patch antenna
*For WMAM-SMK



Antenna Properties			
Frequency range	2.4GHz-2.5GHz		
Impedance	50Ω Nominal		
VSWR	1.92:1 Max		
Return loss	-10dB Max		
Gain(peak)	1.5dBi		
Cable loss	0.3dBi Max		
Polarization	Linear		

2) 150mm wire antenna

*For WMAM-CMK



Antenna Properties			
Frequency range	2.4GHz-2.5GHz		
Impedance	50Ω Nominal		
VSWR	1.92:1 Max		
Return loss	-10dB Max		
Gain(peak)	1.5dBi		
Cable loss	0.3dBi Max		
Polarization	Linear		

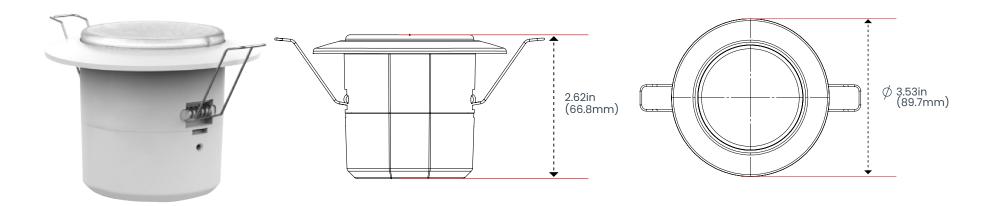
Accessories

Cyrus AM can be mounted to ceiling or at surface using the following mounting accessories.

1. Cyrus AM with ceiling mount accessory (WMAM-CMK)

Dimension: 89.7 x 66.8mm(3.53 x 2.62in) (Top Diameter x Height)

Case Material: UL 94 5VA ABS plastic, White colour

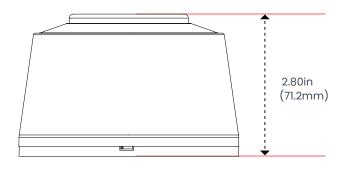


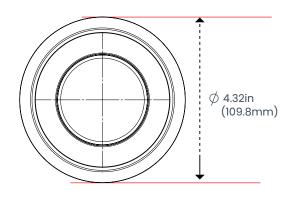
2. Cyrus AM with surface mount accessory (WMAM-SMK)

Dimension: 109.8 x 71.2 mm(4.32 x 2.80in) (Bottom Diameter x Height)

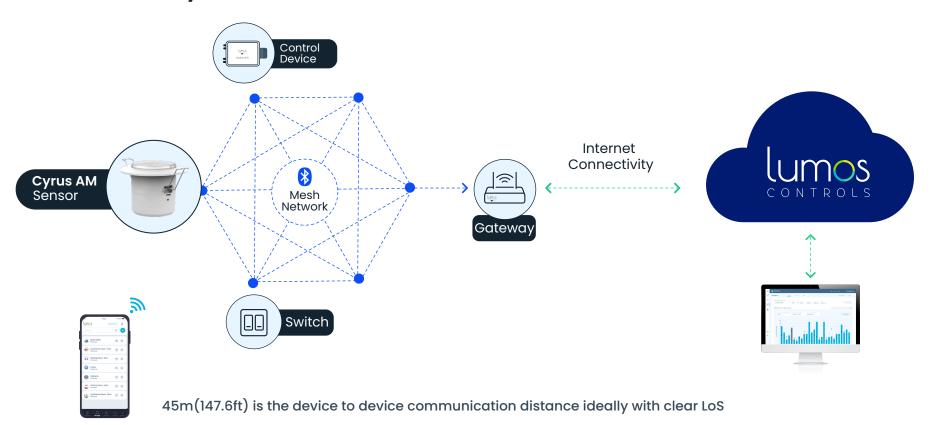
Case Material: UL 94 5VA ABS plastic, White colour





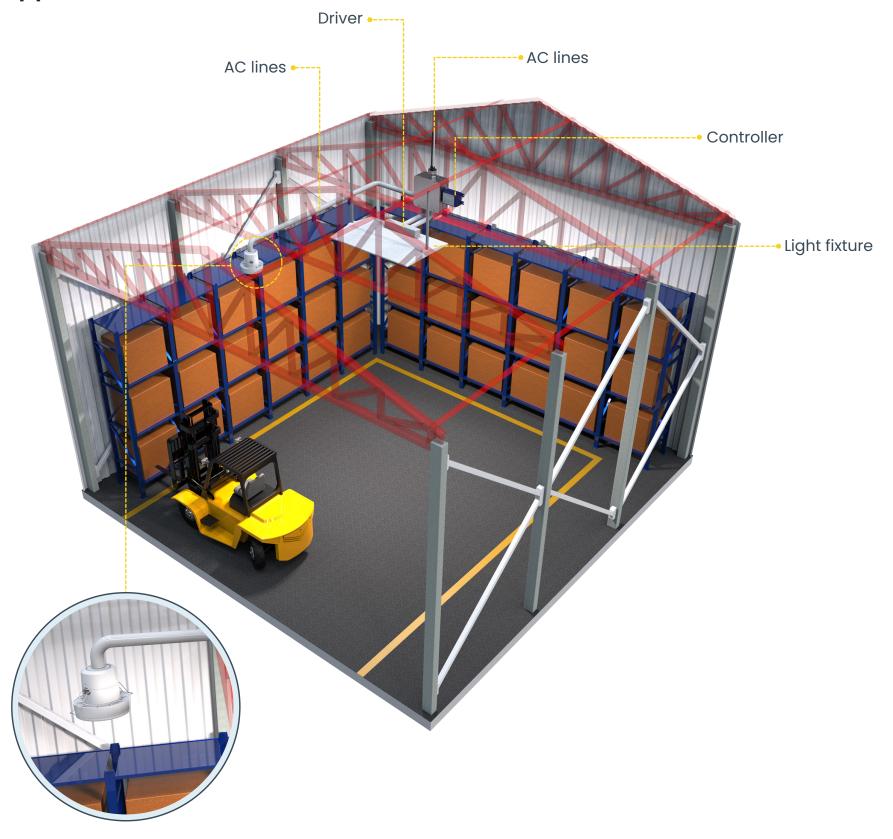


Smart Ecosystem



Certifications (In progress)	Details		
CE	Article 3, RED 2014/53/EU EMC test standards ETSIEN301489-1V2.2.3(2019-11) ETSIEN301489-3V2.2.0(2021-11) ETSIEN301489-17V3.2.4(2020-09) EN55032:2015/A11:2020 EN55035:2017+A11:2020 Safety test standard EN IEC61058-1:2018 EN61058-1-2:2016	Radio test standard ETSIEN300328V2.2.2(2019-07) ETSIEN300440V2.2.1(2018-07) Health test standard: EN62479:2010 EN50663:2017	
cETLus	Conforms to UL Std. 773A Cert. to CSA Std. C22.2 NO. 284		
FCC	ID: 2AG4N-WMAM		
RoHS 2.0	RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU		
REACH	Regulation (EC) No 1907/2006 of REACH		
WEEE	Under the WEEE Directive: 2012/19/EU		
Bluetooth	Declaration ID: D059551		

Application



Cyrus AM

Items included in the package box

Cyrus AM (fitted with chosen mounting accessory)
 User Guide
 Wire Nuts
 Screws*
 Wallplugs*

*Only for WMAM-SMK

Accessories

Product Code	Product Description
WM-SMK	Surface mount accessory
WM-CMK	Ceiling mount accessory

Ordering Information

Product Code	Product Name	Product Description	Communication	Voltage Rating	Sensor Input
WMAM-CMK	Cyrus AM with ceiling mount accessory	Wireless microwave motion & daylight sensor	BLE 5.2	90-277VAC	Motion & light sensor
WMAM-SMK	Cyrus AM with surface mount accessory	Wireless microwave motion & daylight sensor	BLE 5.2	90-277VAC	Motion & light sensor

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20321 Lake Forest Dr D6, Lake Forest, CA 92630 www.lumoscontrols.com

+1 949-397-9330