



Cyrus F

DC Powered Fixture Mount Dual Channel Dimming Motion & Light Sensor

















Product Overview

Cyrus F is a 12-24VDC powered multi-sensing device with low bay PIR motion detection and ambient light sensing. This industry's smallest formfactor device has two 0-10V output channels for controlling intensity and Correlated Color Temperature (CCT). This easy to install fixture mount device also supports UART interface.

Cyrus F is a part of Lumos Controls ecosystem supported by controllers, sensors, switches, modules, drivers, gateways, and analytical dashboards. The ecosystem is listed by the **Design Lights Consortium (DLC)**, qualifying it for energy conservation incentive programs and rebates by utility companies

Specifications

Electrical

Specifications	Value	Remarks	
Input voltage	12-24VDC	Rated input voltage	
Input current	30mA	@12VDC	
	25mA	@24VDC	

Output Channel

Specifications	Value	Remarks
Number of channels	2	
Voltage range	0-10VDC	Tolerance: ±0.2V
Current	15mA	Source current per channel
Dimming range	0-100%	1000 steps resolution
Dimming curve	linear (default) / logarithmic	

Features

- Low bay PIR Motion and ambient light sensing
- 0-10V dual channel class 2 dimming output for intensity and CCT control
- Compact form factor
- BLE 5.2 based non-flooding intelligent communication
- Zero downtime Over-the-Air(OTA) firmware updates
- Supports UART

Bluetooth

Specifications	Value	Remarks
Frequency range	2402-2480MHz	
Max output power	8dBm	Conductive
Receive sensitivity	-95dBm	
Connection distance (device to device)	45m(147.6ft)	Vary depending on the installation environment

Environmental

Specifications	Value	Remarks
Ambient temperature	-20 to 50°C (-4 to 122°F)	
Storage temperature	-20 to 70°C (-4 to 158°F)	
Case temperature	47.6°C (117.6°F)	
Relative humidity	85%	

Mechanical

Specifications	Value	Remarks
Dimension	32X42.5mm (1.26X1.67in)	Diameter x Height
Net weight	14g(0.49oz)	
Flammability rating	UL 94 V-0	

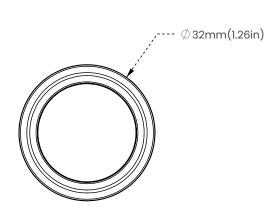
Light Sensor

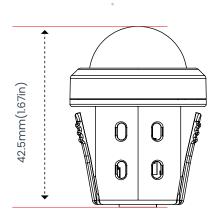
Specifications	Value	Remarks	
Dynamic Illuminance range	0 to 2000lux		
Default range setting	19-512lux	User programmable	
Illuminance accuracy	±10%		

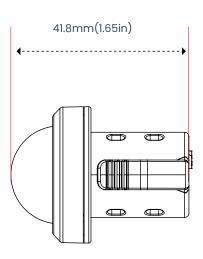
PIR Sensor

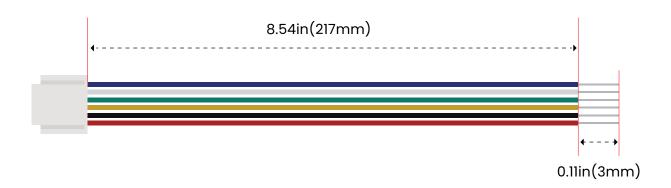
Specifications	Value	Remarks	
Mounting height	2.4 to 3m (7.8 to 9.8ft)		
Max detection range	10m(32.8ft)	Diameter, at 3m(9.8ft) mounting height	

Product Dimensions









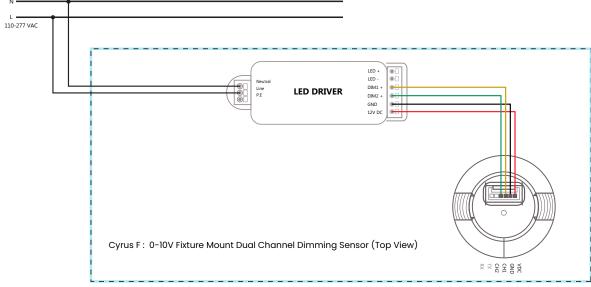
Wiring





Pin	Symbol	Color	Description	
1	VDC	Red	12-24VDC for sensor power	
2	Ground	Black	GND	
3	CH1+ 0-10V	Yellow	Intensity	
4	CH2+ 0-10V	Green	ССТ	
5	Tx	White	UART communication	
6	Rx	Blue	UART communication	

Powering the Cyrus F via 12VDC auxiliary output from a driver



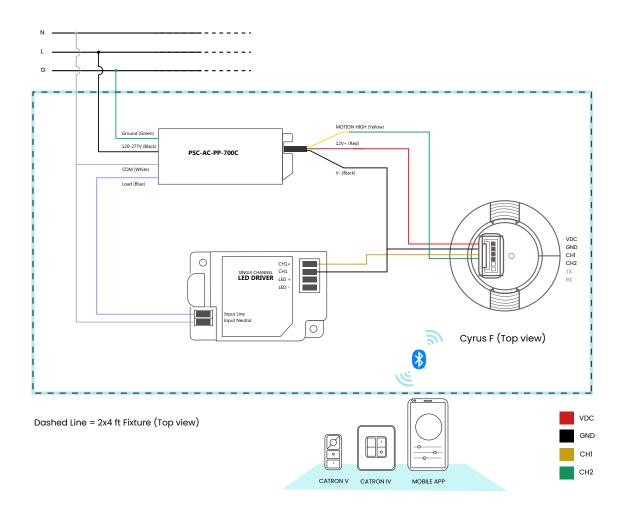
Dashed Line = 2x4 ft Fixture

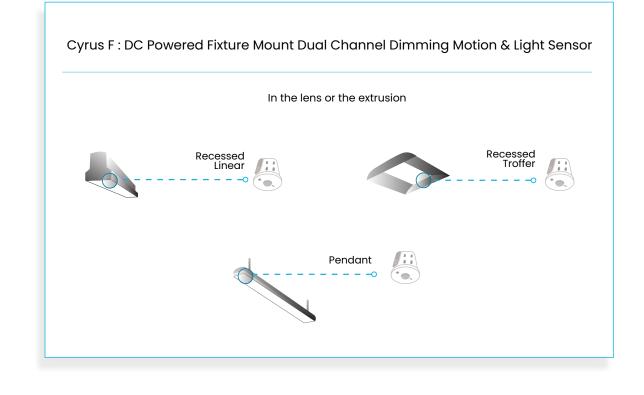


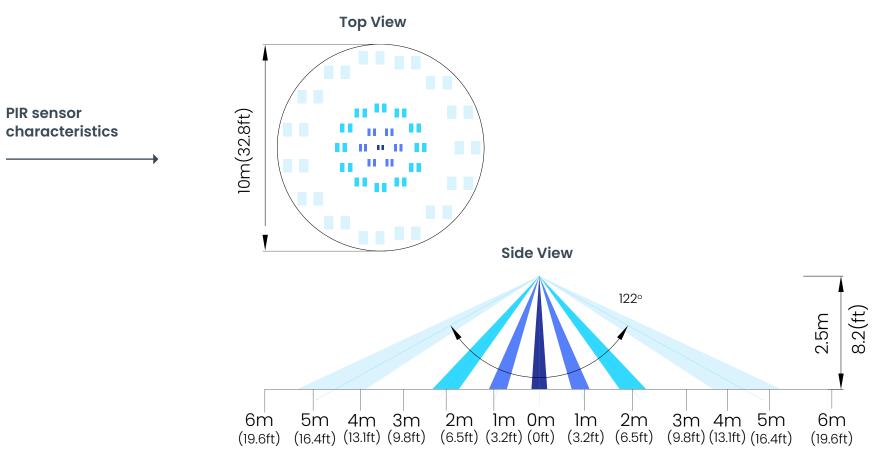
Powering the Cyrus F via powerpack

Set the output mode of the Cyrus F as 'Single Channel' in the mobile application.

Design options

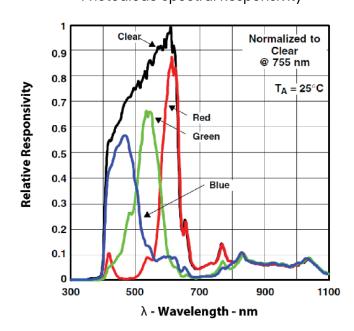




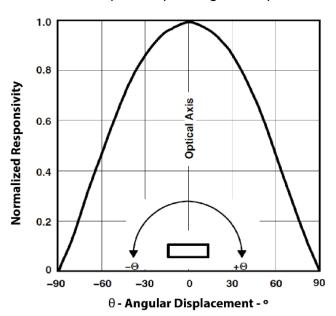


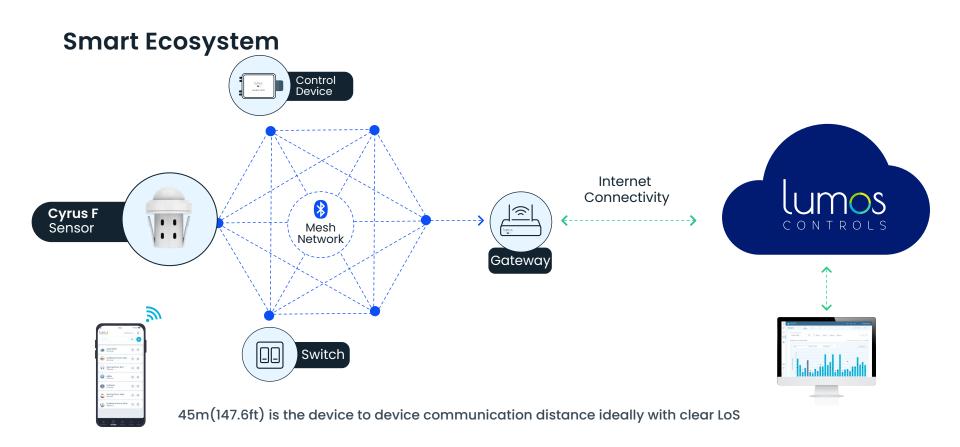
Color sensor characteristics

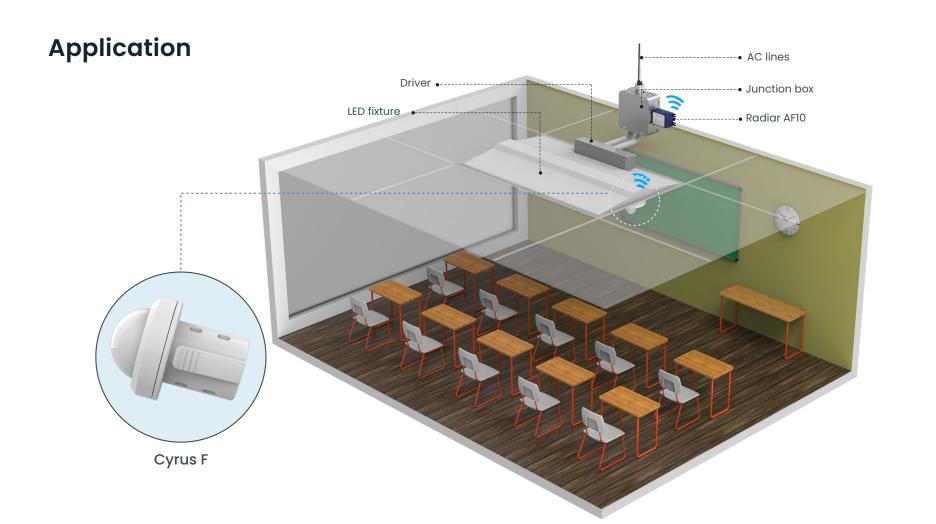
Photodiode Spectral Responsivity



Normalized Responsivity vs Angular Displacement







Certifications	Details			
CE	Article 3, RED 2014/53/EU EMC test standards: Health Test standard: Safety Test Standard: ETSI EN 301 489-1 V2.2.3 (2019-11) EN 62479:2010 EN IEC 61058-1:2018 EN IEC 61058-1:2018 EN 55032:2015/A11:2020 EN 55032:2015/A11:2020 Radio Test standard: ETSI EN 300 328 V2.2.2 (2019-07)			
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			
cETLus	Conforms to UL Std. 60730-1 Cert. to CSA Std. E60730-1			
FCC	ID: 2AG4N-WXD2CPLFN			

Items included in the package box

Cyrus FUser guide

Six pin connector(Molex connector)

Ordering Information

Product Code	Product Name	Product Description	Communication	Voltage Rating	Sensor Input	Output Channel
WXD2CPLFN	Cyrus F	Motion and light sensor with dual channel dimming	BLE5.2	12-24VDC	Motion and Light Sensor	0-10V(2 Channels), UART

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