Cyrus F

DC Powered Fixture Mount Dual Channel Dimming Motion & Light Sensor

lumos CONTROLS
A WiSILICA BRAND

INSTALLATION AND QUICK START SHEET

⚠ WARNING AND GUIDELINES!!!
Read and follow all safety instructions!!

DO NOT INSTALL DAMAGED PRODUCT! This product has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.

WARNING : TURN THE POWER OFF AT THE CIRCUIT BREAKER BEFORE WIRING

WARNING: Risk of Product Damage

○ Electrostatic Discharge (ESD): ESD can damage product(s). Personal grounding equipment should be worn during all installation or servicing of the unit
○ Do not stretch or use cable sets that are too short or are of insufficient length
○ Do not modify the product
○ Do not mount near gas or electric heater
○ Do not change or alter internal wiring or installation circuitry
○ Do not use product for anything other than its intended use

WARNING - Risk of Electric Shock

○ Verify that supply voltage is correct by comparing it with the product information
○ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements
○ All wiring connections should be capped with UL approved recognized wire connectors
○ All unused wiring must be capped

Do's	Don'ts
Installation should be performed by a qualified electrician	Don't use outdoors
Installation shall be in accordance with all applicable local and NEC codes	Avoid input voltage exceeding maximum rating
Turn the power OFF at circuit breakers before wiring	Don't dissemble the products
Observe the correct polarity of output terminal	
Place devices as far away as possible from metallic materials	
Devices work best in when there is a clear LOS between them	
When placing devices inside metallic boxes, please ensure the antenna comes out of the boxes	

Specifications	Value	Remarks
Input Voltage	12-24VDC	Rated Input voltage
Input Current	30mA	@12VDC
	25mA	@24VDC
Output Channel 1 &2	10V	Max output tolerance ±2%
Output Current	15mA	Source current per channel
Dimming Range	0-100%	1000 steps resolution
Frequency Range	2402-2480MHz	100 steps
Tx Power	8dBm	Conductive
Tx Current	48mA	Total current @Max Tx power
Rx Current	37mA	Total current @Rx Mode79
Ambient Temperature	-20 to 50°C (-4 to 122°F)	—
Storage Temperature	-20 to 70°C (-4 to 158°F)	—
Mounting Height	2.4 to 3m (7.8 to 9.8ft)	—
Detection Range	10m (32.8ft)	Diameter, at 3m(9.8ft) mounting height
IP Rating	IP20	Indoor use only
Dimensions	32X42.5mm (1.26X1.67in)	Diameter x Height

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 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
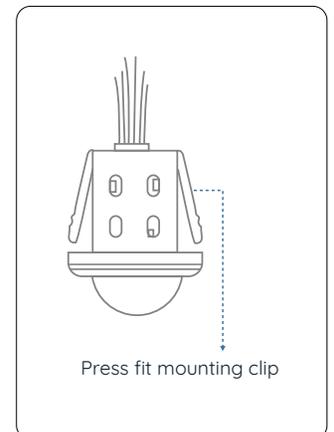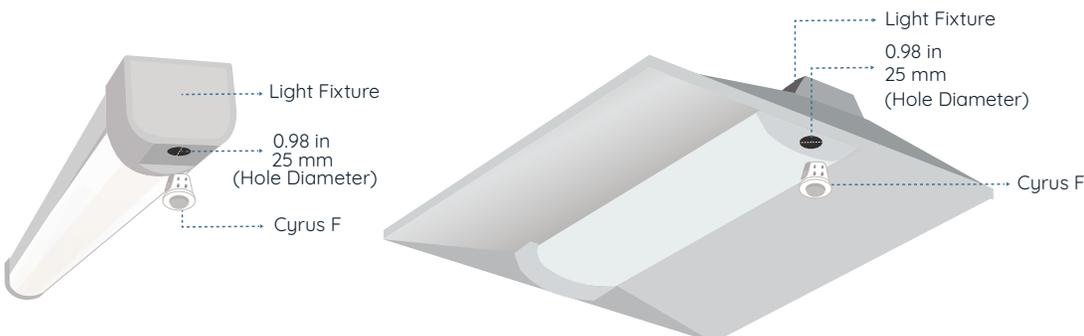

INSTALLATION INSTRUCTIONS

### Installation Steps

Required tools & supplies

Screwdriver

Create a hole of diameter 25mm(0.98in) on the fixture

Light Fixture
0.98 in
25 mm
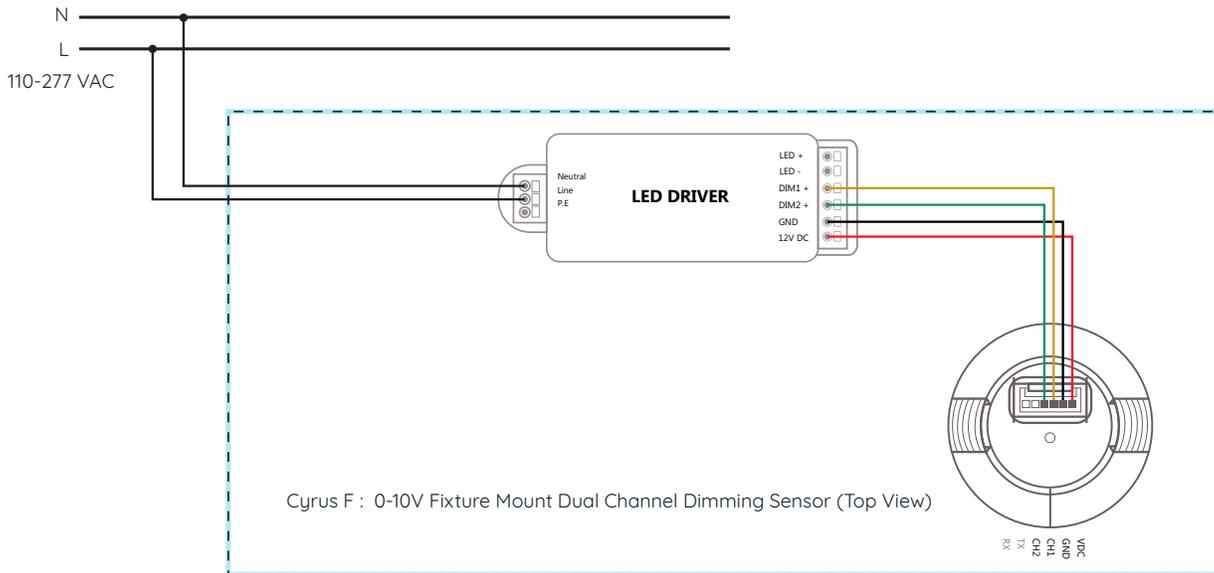(Hole Diameter)
Cyrus F

Light Fixture
0.98 in
25 mm
(Hole Diameter)
Cyrus F

Press fit mounting clip

Gently insert the device into the hole

Cyrus F

Light Fixture

Insert to the hole

Cyrus F
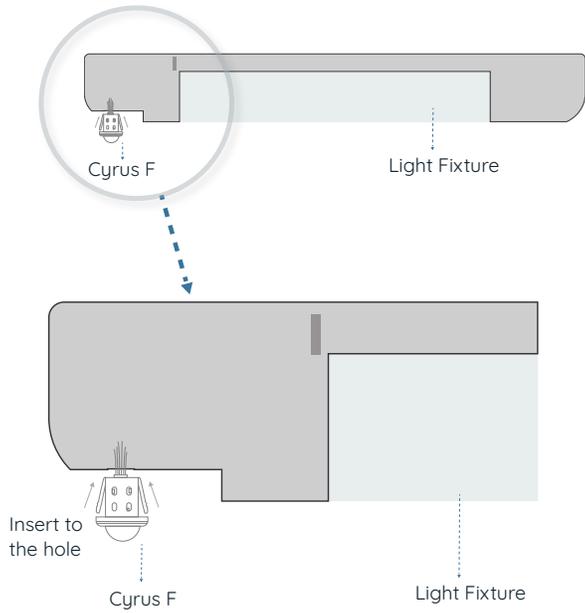
Light Fixture

The press fit mounting clip on the device will keep it attached to the fixture
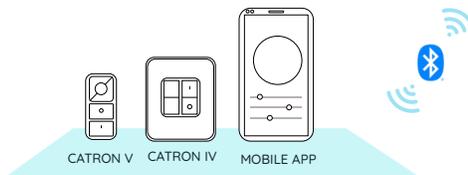

Cyrus F
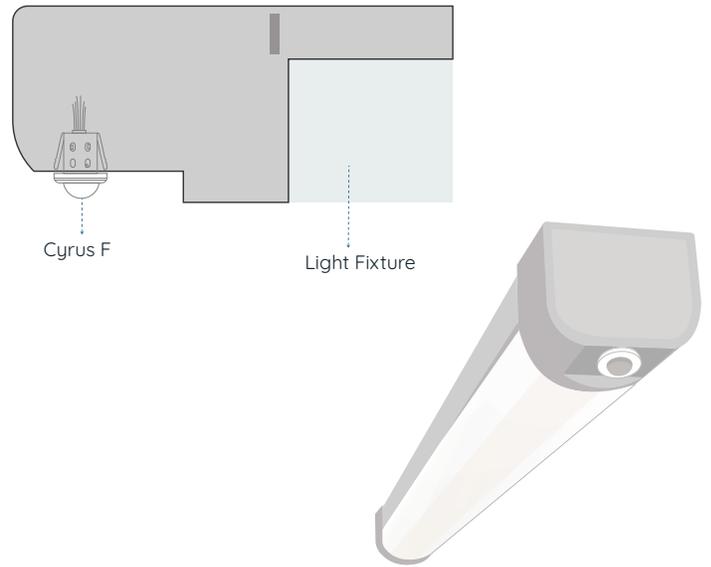
Light Fixture

WIRING DIAGRAM

1. Configuring Cyrus F in a light fixture for motion & daylight sensing, dimming, and tuning control

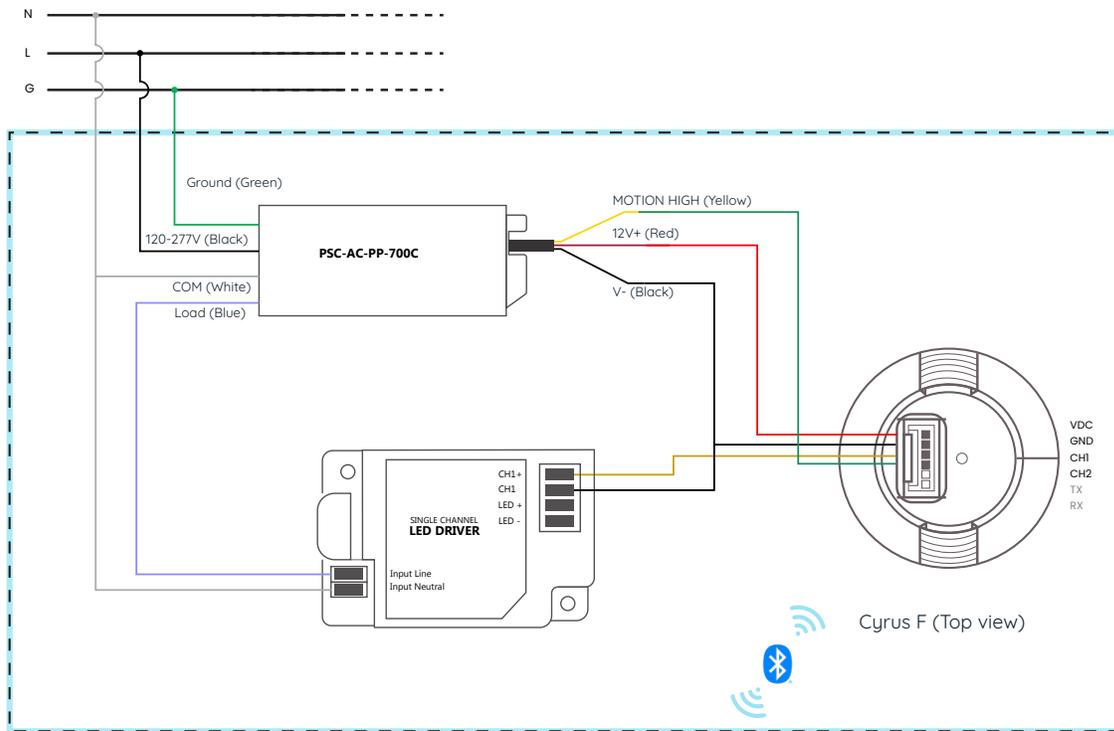 1a) Powering the Cyrus F via 12VDC auxiliary output from a driver

N
L

110-277 VAC

Neutral
Line
P.E

LED DRIVER

LED +
LED -
DIM1 +
DIM2 +
GND
12V DC

Cyrus F : 0-10V Fixture Mount Dual Channel Dimming Sensor (Top View)

RX TX CH2 CH1 GND VDC

Dashed Line = 2x4 ft Fixture

CATRON V   CATRON IV   MOBILE APP

	VDC
	GND
	CH1
	CH2

1b) Powering the Cyrus F via powerpack

N

L

G

Ground (Green)

120-277V (Black)

PSC-AC-PP-700C

MOTION HIGH (Yellow)

12V+ (Red)

COM (White)

Load (Blue)

V- (Black)

VDC
GND
CH1
CH2
TX
RX

CH1+
CH1
LED +
LED -

SINGLE CHANNEL
LED DRIVER

Input Line
Input Neutral

Cyrus F (Top view)

Dashed Line = 2x4 ft Fixture (Top view)

CATRON V   CATRON IV   Mobile App
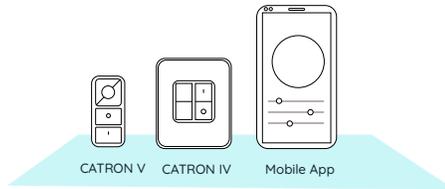
🟥	VDC
⬛	GND
🟨	CH1
🟩	CH2

DESIGN OPTIONS

Cyrus F : 0-10V Fixture Mount Dual Channel Dimming Sensor

In the lens or the extrusion

Recessed
Linear

Recessed
Troffer

Pendant

APPLICATION

- AC lines
- Junction box
- Radiar AF10
- Driver
- LED fixture
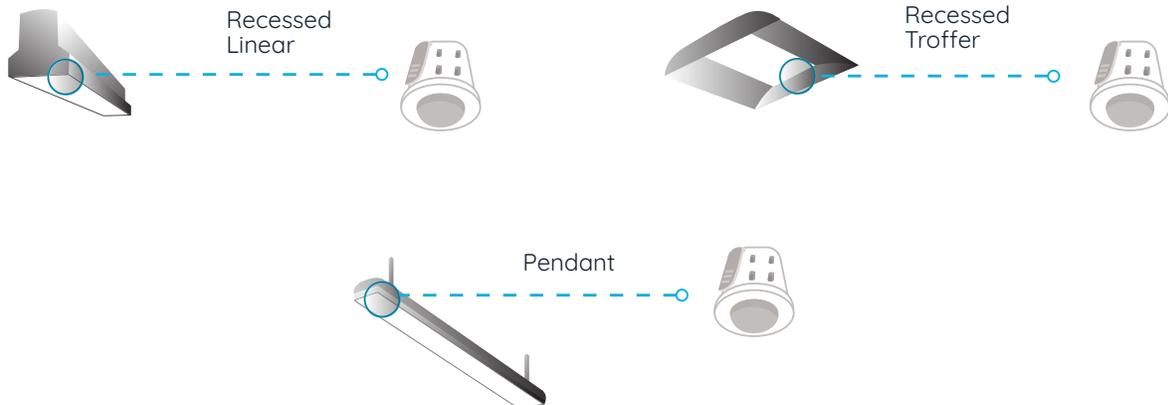
Cyrus F
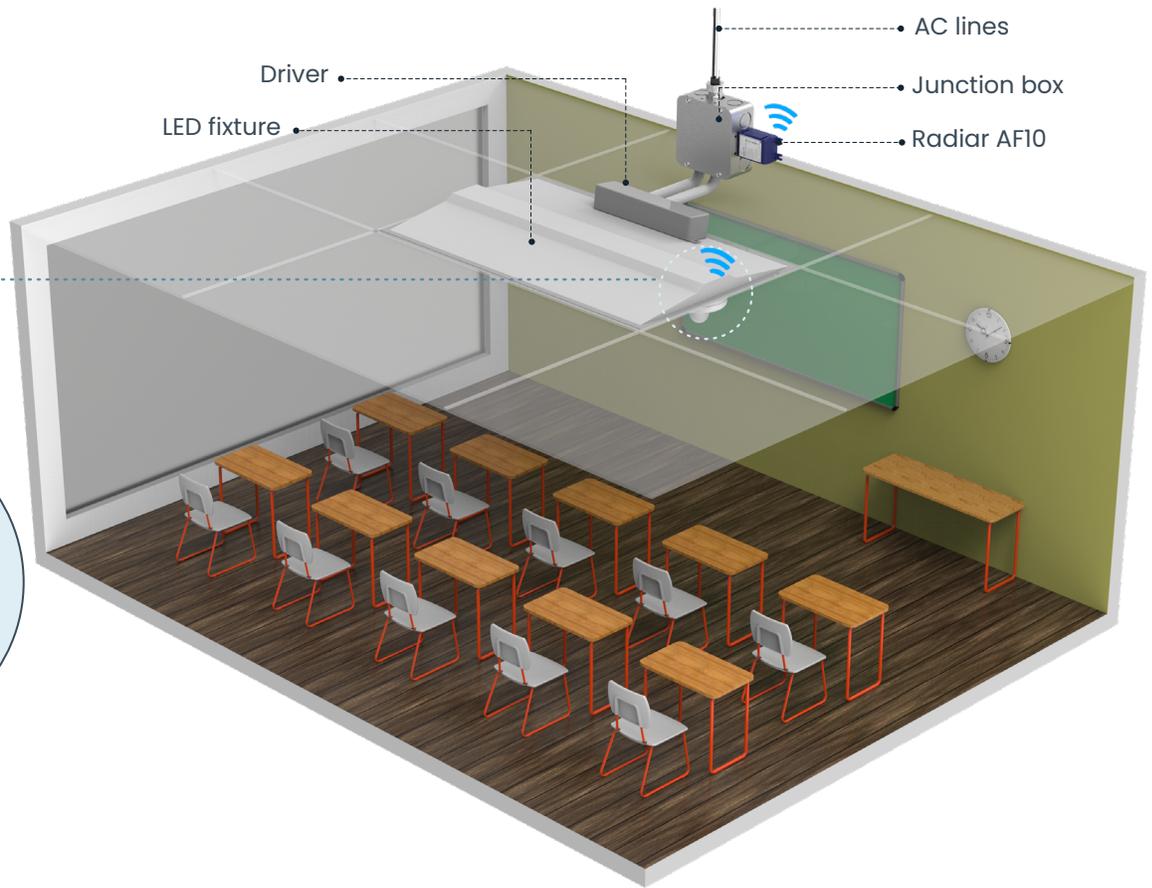
RF Guidelines

If paring of devices are getting failed continuously then it may be due to BLE traffic. To reduce the traffic, power OFF other devices in the vicinity and pair again.

TROUBLESHOOTING

When returning from a Power Outage, lights go back to ON state.	This is normal operation. Our device has a fail-safe feature forcing the device to go to 50% or 100% and 0-10V at the full output on the loss of power. Alternatively, the device will return to its previous state after the power is restored, as configured using the Lumos Controls mobile app needs to be updated to Alternatively, the device will return to the previous state or a custom state as configured using the Lumos Controls mobile app after the power is restored
There is a delay for the device to turn on/off/dim	Check whether you have set up a transition time
Lights flickering	• Check whether connection is as per wiring diagram • Check for loose connections
Lights did not turn ON	• Check whether circuit breaker has tripped • Check whether fuse has blown • Check for loose connections

WARRANTY

5-year limited warranty
Please find warranty terms and conditions
Note: Specifications may change without notice
Actual performance can vary due to end-user environment and application

COMMISSIONING

Once powered up, the device will be ready to be commissioned via the Lumos Controls mobile app, available for free download on iOS and Android. To begin commissioning, click the '+' icon from the top of the 'Devices' tab. The app allows you to preset certain configurations which will be loaded after the device is added. The pre-configurations made using 'Commissioning Settings' will be sent to the devices being commissioned.

Once commissioned, the device will be displayed in the 'Devices' tab and you can perform individual operations like ON/OFF/dimming on it from this tab.

Note: The 'Output Channel Configuration' will be 'Single Channel' by default. To configure dual channel settings, go to 'Additional Settings' and click 'Output Channel Settings'. Then select 'Controller based color tuning' or 'Driver based color tuning' based on the connected driver.

Please visit Help center for more details

LUMOS CONTROLS APPLICATION

Download the 'Lumos Controls' application from Play Store or App Store

OR

Scan the QR codes to download the 'Lumos Controls' application

Google play

App Store

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A WiSilica BRAND

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