

- Install as a retrofit kit or as a new fixture.
- 3 sizes to choose from 2x2, 2x4, 1x4.
- Door style retrofit kit with just one piece, creating a seamless, no air gap look.
- Choose from a volumetric or a flat panel design.
- Bluetooth controls available - see pgs 9-16 for more information.

SUPERflex

SWITCH BETWEEN
4 WATTS & 3 COLOR TEMPS

flexCONTROL

MULTIPLE CONTROL
OPTIONS AVAILABLE



SCAN HERE TO SEE HOW
EASY IT IS TO INSTALL THE
TROFFER TRANSFORMER!



ALSO WORKS
ON 208V & 240V



0-10V DIM



CRI



OPTIONAL EMG
BATTERY BACKUP



BEAM ANGLE



OPERATING
TEMP



100,000hrs
RATED LIFE



SURGE
PROTECTION

PART #	UPC	REPLACES	WATTAGE	LUMENS	COLOR
RP-TTV-G1-2X2-20L-840-FWFC	844006052904	N/A	16/20/24/28	2032	3500K/4000K/5000K
RP-TTV-G1-1X4-25L-840-FWFC	844006053055	N/A	16/20/24/28	2480	3500K/4000K/5000K
RP-TTV-G1-2X4-33L-840-FWFC	844006053178	N/A	20/26/34/40	3390	3500K/4000K/5000K
RP-TTF-G1-2X2-20L-840-FWFC	844006053260	N/A	16/20/24/28	2032	3500K/4000K/5000K
RP-TTF-G1-1X4-25L-840-FWFC	844006053444	N/A	16/20/24/28	2480	3500K/4000K/5000K
RP-TTF-G1-2X4-33L-840-FWFC	844006053505	N/A	20/26/34/40	3390	3500K/4000K/5000K

Must order case quantity of 4



UL 1598 LISTED
FIXTURE



UL 1598C LISTED
RETROFIT KIT



* 347 voltage optional

LIGHT EFFICIENT DESIGN HEADQUARTERS 188 S. Northwest Highway • Cary, IL 60013
INNOVATION & MANUFACTURING CENTER 30 Log Bridge Road, Building 200 • Middleton, MA 01949
847.380.3540 • led-llc.com
10.17.23 Information is subject to change without notice.

 **Light Efficient Design**



TROFFER FEATURES	OUR DESIGN	EVERYONE ELSE
BRACKET DESIGN	Single piece	Multiple bracket pieces
UNIVERSAL TROFFER FIT	Fits every single troffer	Fits some, doesn't fit others
TRIM THAT COVERS UP AIR GAP AROUND FRAME	YES	NO. Ugly air gap depending on the fixture it goes into
FAST 3-MIN INSTALL	YES	NO. 5-15 min or more
DESIGN	Available in both flat panel & volumetric looks	1 or the other
ADJUSTABLE WATTAGE OR COLOR ALL-IN-ONE	YES. FlexWatt & FlexColor	Maybe
CAN BE INSTALLED EITHER AS A RETROFIT OR A NEW FIXTURE	YES. Single product can be used as either	NO. Either purchase door retrofit kit or new fixture

HOW EASY IS IT TO SET?

Simply open the fixture, and adjust the slide switches with your finger. Takes 30 seconds max

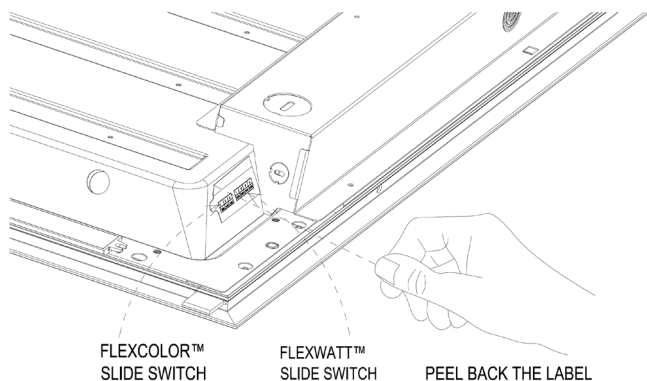
flexWATT

FLEXWATT SLIDE SWITCH POSITION				
SIZE	0	1	2	3
2X2	16W (2000-2032LM)	20W (2500-2540LM)	24W (3072-3120LM)	28W (3584-3640LM)
1X4	16W (1968-2000LM)	20W (2460-2500LM)	24W (3000-3100LM)	28W (3500-3556LM)
2X4	20W (2540-2600LM)	26W (3350-3400LM)	34W (4390-4450LM)	40W (5160-5300LM)

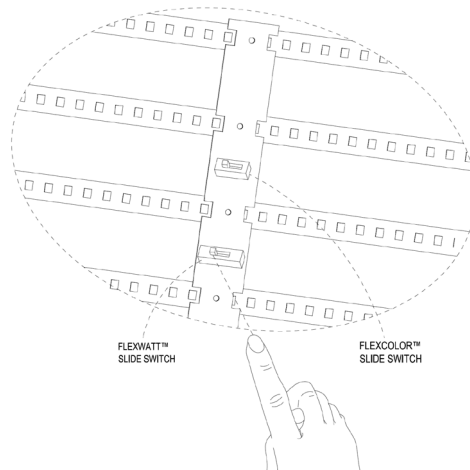
flexCOLOR

FLEXCOLOR SLIDE SWITCH POSITION			
SIZE	TOP	MIDDLE	BOTTOM
2X2	3500K	4000K	5000K
1X4	3500K	4000K	5000K
2X4	3500K	4000K	5000K

TTF



TTV

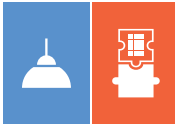


flexCONTROL

FIXTURE COMES WITH 10V DIMMING;
DIM-TO-OFF DRIVER W/ 12V DC AUX POWER.

Fixture can be used with Basic PIR fixture level control or advanced Bluetooth Mesh Sensor control system





PART NUMBER BUILDER

MFR	PRODUCT	GEN	SIZE	WATTAGE	COLOR	FUNCTION	OPTIONS	REV
RP	TTV	G1				FWFC		

ORDERING EXAMPLE

RP-TTV-G1-2X2-20L-840-FWFC

2X2 → 20L,25L,31L,36L
1X4 → 20L,25L,31L,36L
2X4 → 25L,33L,43L,53L

835=3500K/85CRI
840=4000K/85CRI
850=5000K/85CRI

FWFC=
FlexWatt + FlexColor

-OCC=high/low motion sensor
-EMG=90min emergency
battery backup
-AIR = Air Return Trim
-Advanced control options
available, call for more
information



If you require BAA (ARRA Section 1605) add
-AA at end of part number.

For BAA projects, please contact our projects
quotations team.

SURFACE MOUNT ACCESSORIES

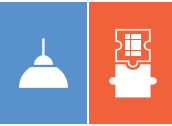
RPT-LEDPANEL-SMK-2X2
RPT-LEDPANEL-SMK-1X4
RPT-LEDPANEL-SMK-2X4

DEFAULT LUMEN PACKAGE (WATTAGE AND CCT) ARE SHOWN BELOW IN BOLD. There are two ways to achieve a non-default lumen package and/or CCT -

1. You can easily adjust in field via our FlexWatt and FlexColor internal switches. 2. Have us adjust the FlexWatt and FlexColor at the factory for an additional charge.

ORDERING GUIDE

	PART #	UPC	WATTAGE	LUMENS	CCT (K)	DLC CODES
2X2	RP-TTV-G1-2X2-20L-835-FWFC	844006052898	16	2000	3500	PO3AXSOR
	RP-TTV-G1-2X2-20L-840-FWFC	844006052904	16	2032	4000	PO3AXSOR
	RP-TTV-G1-2X2-20L-850-FWFC	844006052911	16	2032	5000	PO3AXSOR
	RP-TTV-G1-2X2-25L-835-FWFC	844006052928	20	2500	3500	PPFL3XHO
	RP-TTV-G1-2X2-25L-840-FWFC	844006052935	20	2540	4000	PPFL3XHO
	RP-TTV-G1-2X2-25L-850-FWFC	844006052942	20	2540	5000	PPFL3XHO
	RP-TTV-G1-2X2-31L-835-FWFC	844006052959	24	3072	3500	PWCUHU54
	RP-TTV-G1-2X2-31L-840-FWFC	844006052966	24	3120	4000	PWCUHU54
	RP-TTV-G1-2X2-31L-850-FWFC	844006052973	24	3120	5000	PWCUHU54
	RP-TTV-G1-2X2-36L-835-FWFC	844006052980	28	3584	3500	PR7NEREO
	RP-TTV-G1-2X2-36L-840-FWFC	844006052997	28	3640	4000	PR7NEREO
	RP-TTV-G1-2X2-36L-850-FWFC	844006053000	28	3640	5000	PR7NEREO
1X4	RP-TTV-G1-1X4-20L-835-FWFC	844006053017	16	1968	3500	P5037N4T
	RP-TTV-G1-1X4-20L-840-FWFC	844006053024	16	1984	4000	P5037N4T
	RP-TTV-G1-1X4-20L-850-FWFC	844006053031	16	2000	5000	P5037N4T
	RP-TTV-G1-1X4-25L-835-FWFC	844006053048	20	2460	3500	PU2SVMZT
	RP-TTV-G1-1X4-25L-840-FWFC	844006053055	20	2480	4000	PU2SVMZT
	RP-TTV-G1-1X4-25L-850-FWFC	844006053062	20	2500	5000	PU2SVMZT
	RP-TTV-G1-1X4-31L-835-FWFC	844006053079	24	3000	3500	PKRUN42H
	RP-TTV-G1-1X4-31L-840-FWFC	844006053086	24	3048	4000	PKRUN42H
	RP-TTV-G1-1X4-31L-850-FWFC	844006053093	24	3100	5000	PKRUN42H
	RP-TTV-G1-1X4-36L-835-FWFC	844006053109	28	3500	3500	PDPFGCTQ
	RP-TTV-G1-1X4-36L-840-FWFC	844006053116	28	3556	4000	PDPFGCTQ
	RP-TTV-G1-1X4-36L-850-FWFC	844006053123	28	3556	5000	PDPFGCTQ
2X4	RP-TTV-G1-2X4-25L-835-FWFC	844006053130	20	2540	3500	PCLVX21E
	RP-TTV-G1-2X4-25L-840-FWFC	844006053147	20	2600	4000	PCLVX21E
	RP-TTV-G1-2X4-25L-850-FWFC	844006053154	20	2600	5000	PCLVX21E
	RP-TTV-G1-2X4-33L-835-FWFC	844006053161	26	3350	3500	PW8NFK1Q
	RP-TTV-G1-2X4-33L-840-FWFC	844006053178	26	3390	4000	PW8NFK1Q
	RP-TTV-G1-2X4-33L-850-FWFC	844006053185	26	3400	5000	PW8NFK1Q
	RP-TTV-G1-2X4-43L-835-FWFC	844006053192	34	4390	3500	PY1WJ5ZX
	RP-TTV-G1-2X4-43L-840-FWFC	844006053208	34	4450	4000	PY1WJ5ZX
	RP-TTV-G1-2X4-43L-850-FWFC	844006053215	34	4450	5000	PY1WJ5ZX
	RP-TTV-G1-2X4-53L-835-FWFC	844006053222	40	5160	3500	P80XVTA2
	RP-TTV-G1-2X4-53L-840-FWFC	844006053239	40	5300	4000	P80XVTA2
	RP-TTV-G1-2X4-53L-850-FWFC	844006053246	40	5300	5000	P80XVTA2



PART NUMBER BUILDER

MFR	PRODUCT	GEN	SIZE	WATTAGE	COLOR	FUNCTION	OPTIONS	REV
RP	TTF	G1				FWFC		

ORDERING EXAMPLE

RP-TTF-G1-2X2-20L-840-FWFC

2X2 → 20L,25L,31L,36L
 1X4 → 20L,25L,31L,36L
 2X4 → 25L,33L,43L,53L

835=3500K/85CRI
 840=4000K/85CRI
 850=5000K/85CRI

FWFC=
 FlexWatt + FlexColor

-OCC=high/low motion sensor
 -EMG=90min emergency
 battery backup
 -AIR = Air Return Trim
 -Advanced control options
 available, call for more



If you require BAA (ARRA Section 1605) add
 -AA at end of part number.

For BAA projects, please contact our projects
 quotations team.

SURFACE MOUNT ACCESSORIES

RPT-LEDPANEL-SMK-2X2
 RPT-LEDPANEL-SMK-1X4
 RPT-LEDPANEL-SMK-2X4

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ORDERING GUIDE

	PART #	UPC	WATTAGE	LUMENS	CCT (K)	DLC CODES
2X2	RP-TTF-G1-2X2-20L-835-FWFC	844006053253	16	2000	3500	PDJZ455J
	RP-TTF-G1-2X2-20L-840-FWFC	844006053260	16	2032	4000	PDJZ455J
	RP-TTF-G1-2X2-20L-850-FWFC	844006053277	16	2032	5000	PDJZ455J
	RP-TTF-G1-2X2-25L-835-FWFC	844006053284	20	2500	3500	PSCTWQJJ
	RP-TTF-G1-2X2-25L-840-FWFC	844006053291	20	2540	4000	PSCTWQJJ
	RP-TTF-G1-2X2-25L-850-FWFC	844006053307	20	2540	5000	PSCTWQJJ
	RP-TTF-G1-2X2-31L-835-FWFC	844006053314	24	3072	3500	PCHWMOEF
	RP-TTF-G1-2X2-31L-840-FWFC	844006053321	24	3120	4000	PCHWMOEF
	RP-TTF-G1-2X2-31L-850-FWFC	844006053338	24	3120	5000	PCHWMOEF
	RP-TTF-G1-2X2-36L-835-FWFC	844006053345	28	3584	3500	P21BZH1B
	RP-TTF-G1-2X2-36L-840-FWFC	844006053352	28	3640	4000	P21BZH1B
	RP-TTF-G1-2X2-36L-850-FWFC	844006053369	28	3640	5000	P21BZH1B
1X4	RP-TTF-G1-1X4-20L-835-FWFC	844006053376	16	1968	3500	PVY1ZQ7X
	RP-TTF-G1-1X4-20L-840-FWFC	844006053383	16	1984	4000	PVY1ZQ7X
	RP-TTF-G1-1X4-20L-850-FWFC	844006053390	16	2000	5000	PVY1ZQ7X
	RP-TTF-G1-1X4-25L-835-FWFC	844006053406	20	2460	3500	PD859M44
	RP-TTF-G1-1X4-25L-840-FWFC	844006053413	20	2480	4000	PD859M44
	RP-TTF-G1-1X4-25L-850-FWFC	844006053420	20	2500	5000	PD859M44
	RP-TTF-G1-1X4-31L-835-FWFC	844006053437	24	3000	3500	PPBUV9Z0
	RP-TTF-G1-1X4-31L-840-FWFC	844006053444	24	3048	4000	PPBUV9Z0
	RP-TTF-G1-1X4-31L-850-FWFC	844006053451	24	3100	5000	PPBUV9Z0
	RP-TTF-G1-1X4-36L-835-FWFC	844006053468	28	3500	3500	PEGDQWS7
	RP-TTF-G1-1X4-36L-840-FWFC	844006053475	28	3556	4000	PEGDQWS7
	RP-TTF-G1-1X4-36L-850-FWFC	844006053482	28	3556	5000	PEGDQWS7
2X4	RP-TTF-G1-2X4-25L-835-FWFC	844006053499	20	2540	3500	PQDQB5GM
	RP-TTF-G1-2X4-25L-840-FWFC	844006053505	20	2600	4000	PQDQB5GM
	RP-TTF-G1-2X4-25L-850-FWFC	844006053512	20	2600	5000	PQDQB5GM
	RP-TTF-G1-2X4-33L-835-FWFC	844006053529	26	3350	3500	PAVIL5O9
	RP-TTF-G1-2X4-33L-840-FWFC	844006053536	26	3390	4000	PAVIL5O9
	RP-TTF-G1-2X4-33L-850-FWFC	844006053543	26	3400	5000	PAVIL5O9
	RP-TTF-G1-2X4-43L-835-FWFC	844006053550	34	4390	3500	P8NYRB0G
	RP-TTF-G1-2X4-43L-840-FWFC	844006053567	34	4450	4000	P8NYRB0G
	RP-TTF-G1-2X4-43L-850-FWFC	844006053574	34	4450	5000	P8NYRB0G
	RP-TTF-G1-2X4-53L-835-FWFC	844006053581	40	5160	3500	P1EQNH2C
	RP-TTF-G1-2X4-53L-840-FWFC	844006053598	40	5300	4000	P1EQNH2C
	RP-TTF-G1-2X4-53L-850-FWFC	844006053604	40	5300	5000	P1EQNH2C

TROFFER TRANSFORMER INSTALLATION GUIDE (RETROFIT)

1. SHUT OFF POWER TO THE FIXTURE

Open the fixture lens and remove the existing fluorescent lamps, ballast cover and lens. Disconnect the ballast from the building's line voltage.



2. INSTALL SAFETY ANCHOR TO THE EXISTING FIXTURE

Using the supplied (2) anchor brackets and (2) self-drilling screws, attach anchor to the fixture housing.



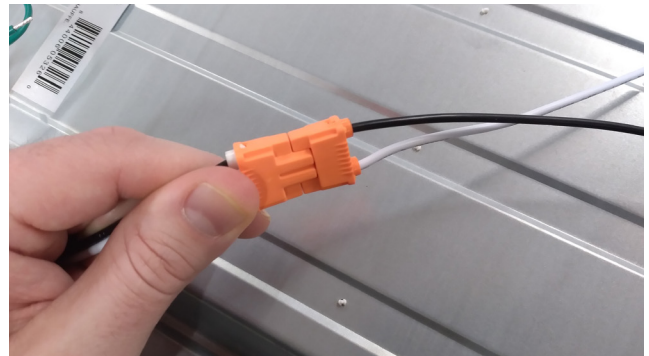
3. ATTACH CARABINERS/SAFETY CABLES

Use the (2) carabiners to connect to the Troffer Transformer safety cables to the anchor points. Now the fixture will be hanging in place to make the install easier. For install onto narrow T-Grid – install centering tabs to holes on trim for guarantee straight fit.



4. MAKE ELECTRICAL CONNECTIONS

Connect input power via the included quick disconnect.



5. INSTALL KNIFE-EDGE

Align the knife-edge of the Troffer Transformer with the T-bar grid and push. The knife will be sandwiched between the T-bar and the old fixture.



6. COMPLETE THE INSTALL

Push the other side of the Troffer Transformer up into the existing fixture. With a TORX T30 screwdriver rotate corner screws 1/2 turn (180°) to secure the Troffer-Transformer in place with expanding latch. (2x4 center latch is 1/4 turn - 90°) Install adhesive cover to T30 latch for smooth look. Turn power ON and install is complete!





-AIR

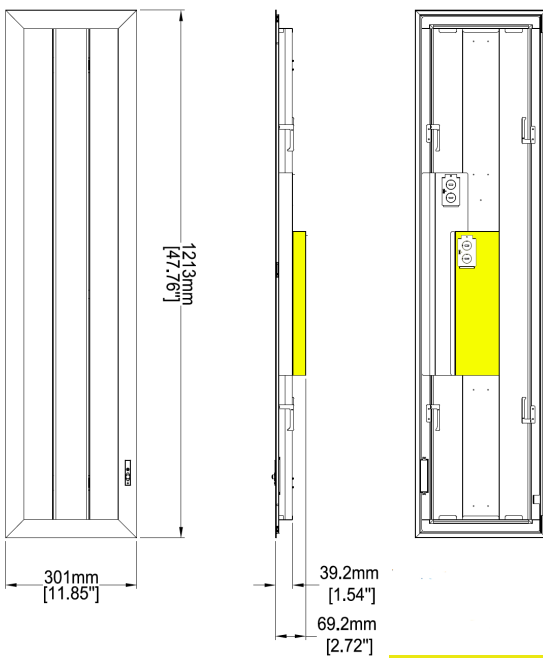
Use the Troffer Transformer Air Return Option (...-AIR) on flat panel or volumetric versions to include air return slots in the fixture trim.



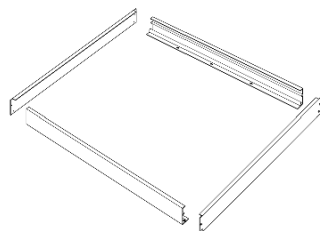
AIR RETURN
SLOTS

TTV DIMENSIONS*

1X4

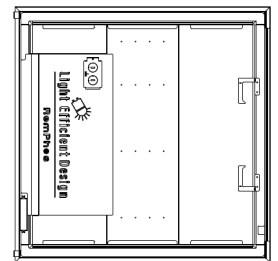
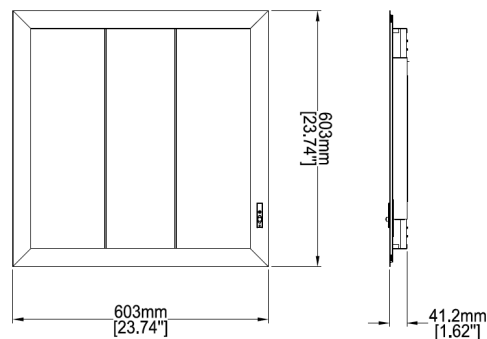


Optional EMG/Junction Box

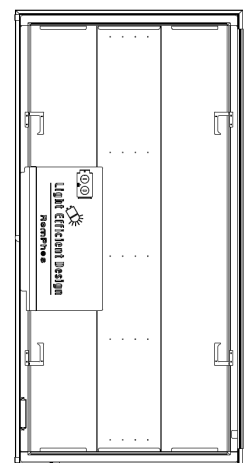
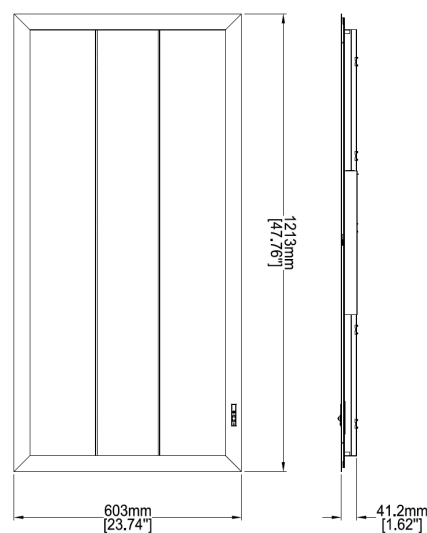


SURFACE MOUNT KIT ACCESSORY (2X2 SHOWN)
HEIGHT/DEPTH OF KIT 2.25"

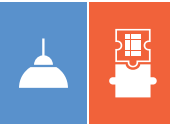
2X2



2X4



* TTF SHOWN



-AIR

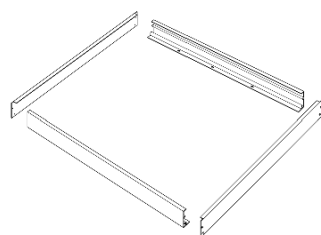
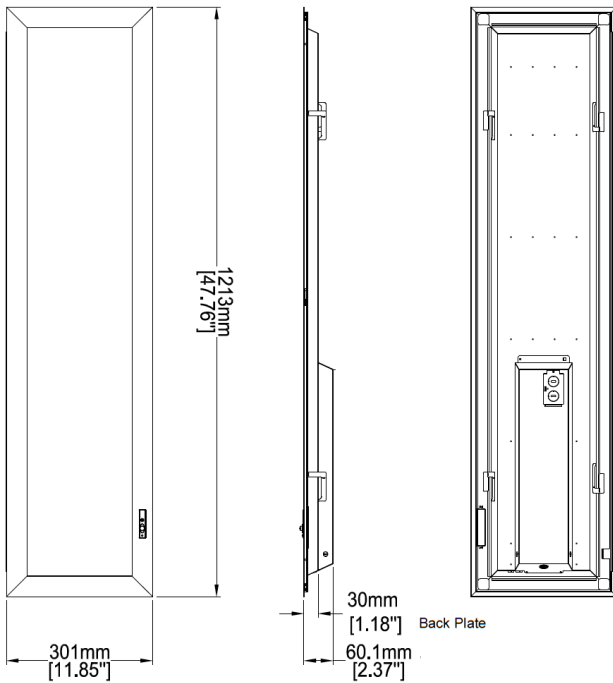
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AIR RETURN SLOTS

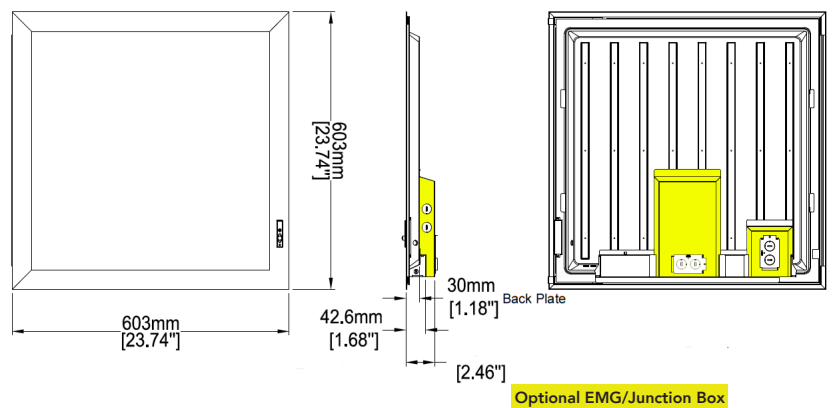
TTF DIMENSIONS

1X4

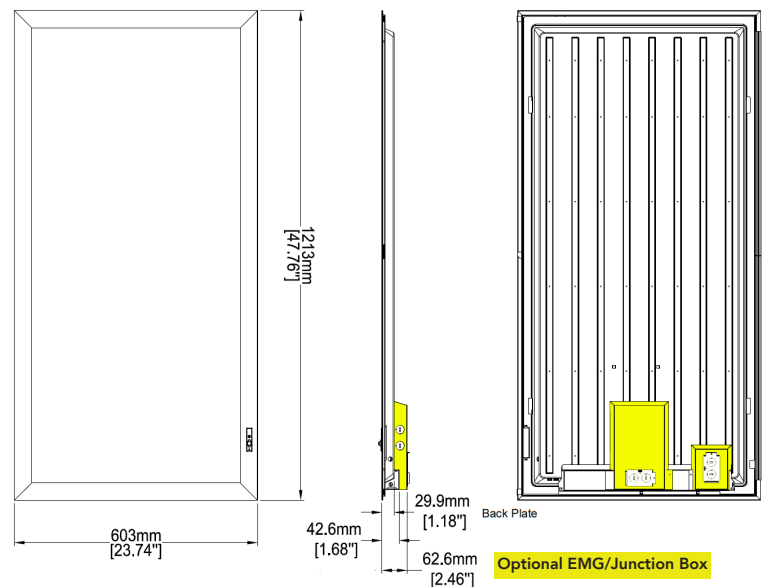


SURFACE MOUNT KIT ACCESSORY (2X2 SHOWN)
HEIGHT/DEPTH OF KIT 2.25"

2X2



2X4





REMOTE CONTROL SETTINGS

If satisfied with default settings, remote control is not needed. If settings need to be changed, optional remote control (RP-OC2-REMOTE-IR11), is required.



PERMANENT ON FUNCTION

Press 'ON' button, fixture goes to permanent on mode, sensor is disabled. With memory function against power failure.

* Press 'Auto' or 'Reset' to quit this mode.



PERMANENT OFF FUNCTION

Press 'OFF' button, fixture goes to permanent off mode, sensor is disabled.

With memory function against power failure

* Press 'Auto' or 'Reset' learn' to quit this mode.



SENSOR MODE

Press 'Auto' button, the sensor starts to work and all settings remain the same as the latest status before the light was switched on/off.



RESET FUNCTION

Press 'Reset' button, all settings go back to factory default settings.

FACTORY DEFAULT SETTINGS - REMOTE REQUIRED TO CHANGE SETTINGS

Daylight sensor=disable

Hold time=5min

Twilight time=+∞

Twilight level=30%

NOTE daylight harvest function is disabled in factory default mode. Choose the appropriate lux threshold first to activate the daylight harvest function.

DISABLE DAYLIGHT SENSOR

Press 'Disable' button, the daylight sensor will be disabled, the motion sensor will work always, even in daytime.



TEST MODE

Test mode' is used for testing purpose only, for users to check the the detection range.

**Quit test mode by pressing any other button of 'Hold time'. The sensor settings are changed accordingly.

TEST MODE SETTINGS

Daylight sensor=disable

Hold time=3s

Twilight time=N/A

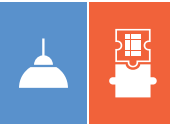
Twilight level=N/A



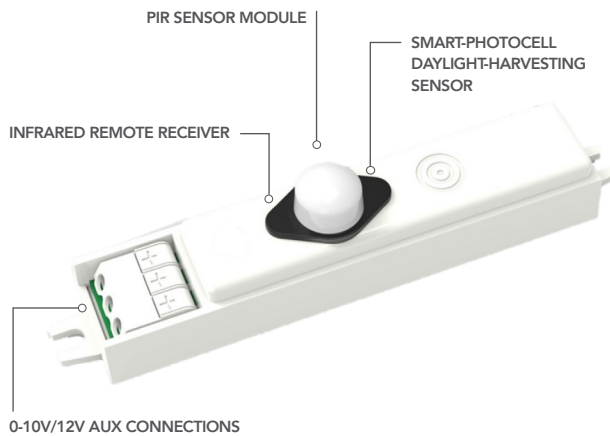
← Sensitivity section not used

↑
IR11

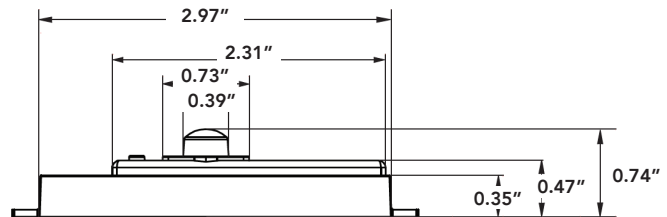
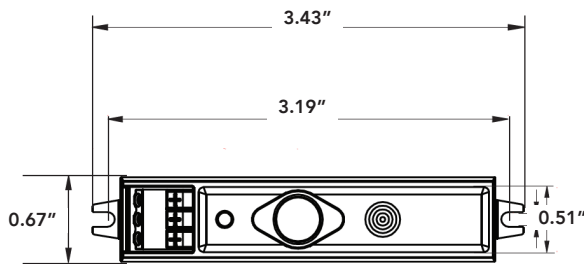
- The light will blink (~0.5s) ONCE when sensor successfully receives RC signal after pressing any valid button.
- When "twilight level" set at 0%, it becomes ON/OFF control.



MOTION SENSOR W/ DAYLIGHT HARVESTING

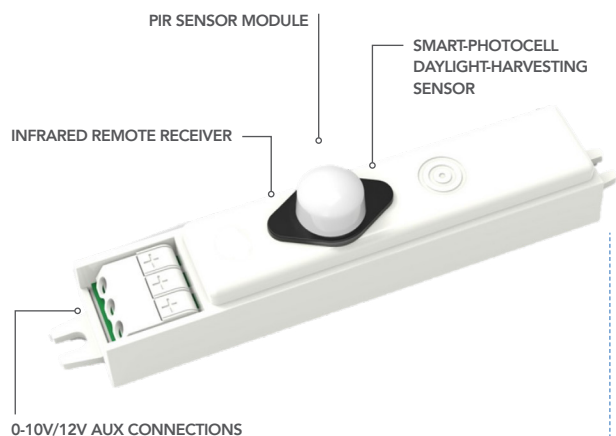


- Occupancy & daylight sensor
- Lighting control scenarios adjusts the light based on occupancy, daylight and or manual control
- Powered by 0-10V/12V AUX connections
- Passive infrared (PIR) occupancy sensor
- Uses less than 0.1W in standby mode
- Bluetooth mesh compliant
- Bluetooth operation frequency – 2.4GHz - 2.483 GHz
- Bluetooth transmission range – 10-30m (Typical indoor)
- Input current – $\geq 20\text{mA}$
- Individual/group addressing
- Decentralized control (no single point of failure)
- Compact & flexible ready to be integrated into any suitable luminaire
- Detection range – Max 5m

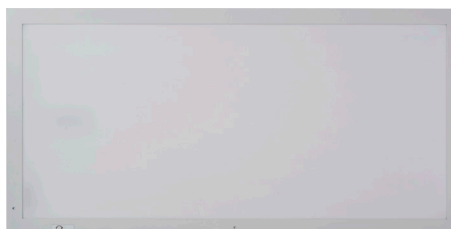




MOTION SENSOR W/ DAYLIGHT HARVESTING

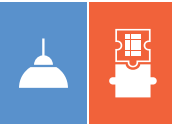


VOLUMETRIC (TTV)



FLAT PANEL (TTF)

PART #	UPC	WATTAGE	LUMENS	COLOR
OCCUPANCY SENSING				
RP-TTV-G1-2X2-20L-840-FWFC-OCCBT	844006076481	16/20/24/28	2032	3500K/4000K/5000K
RP-TTV-G1-1X4-25L-840-FWFC-OCCBT	844006086954	16/20/24/28	2480	3500K/4000K/5000K
RP-TTV-G1-2X4-33L-840-FWFC-OCCBT	844006076498	20/26/34/40	3390	3500K/4000K/5000K
RP-TTF-G1-2X2-20L-840-FWFC-OCCBT	844006078256	16/20/24/28	2032	3500K/4000K/5000K
RP-TTF-G1-1X4-25L-840-FWFC-OCCBT	844006091453	16/20/24/28	2480	3500K/4000K/5000K
RP-TTF-G1-2X4-33L-840-FWFC-OCCBT	844006091460	20/26/34/40	3390	3500K/4000K/5000K
CONTROL NODE ONLY				
RP-TTV-G1-2X2-20L-840-FWFC-BT	844006092269	16/20/24/28	2032	3500K/4000K/5000K
RP-TTV-G1-1X4-25L-840-FWFC-BT	844006092276	16/20/24/28	2480	3500K/4000K/5000K
RP-TTV-G1-2X4-33L-840-FWFC-BT	844006092283	20/26/34/40	3390	3500K/4000K/5000K
RP-TTF-G1-2X2-20L-840-FWFC-BT	844006092290	16/20/24/28	2032	3500K/4000K/5000K
RP-TTF-G1-1X4-25L-840-FWFC-BT	844006092306	16/20/24/28	2480	3500K/4000K/5000K
RP-TTF-G1-2X4-33L-840-FWFC-BT	844006092313	20/26/34/40	3390	3500K/4000K/5000K

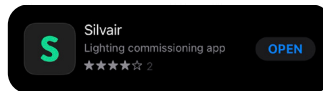


PROVISIONING / CONFIGURATIONS

The Bluetooth Mesh sensor is in the Unprovisioned Mode until it is provisioned by a "Provisioner", which typically is a smart phone with a Bluetooth Mesh compatible app. It is highly recommended to use the Silvair iOS app (<https://silvair.com/en/>) to make the Bluetooth Mesh sensor fully work. Please contact Silvair at business@silvair.com about how to get and use the app

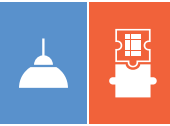


The access to Silvair apps
mobile app: Silvair on the App Store
web app: platform.silvair.com



BLUETOOTH MESH FACTORY RESET

This device can be easily reset by pressing the "Reset" button for 5 seconds. Once the factory reset is done successfully, the luminaire flashes and then permanent on, then the device is being able to be re-commissioned by **SILVAIR** app

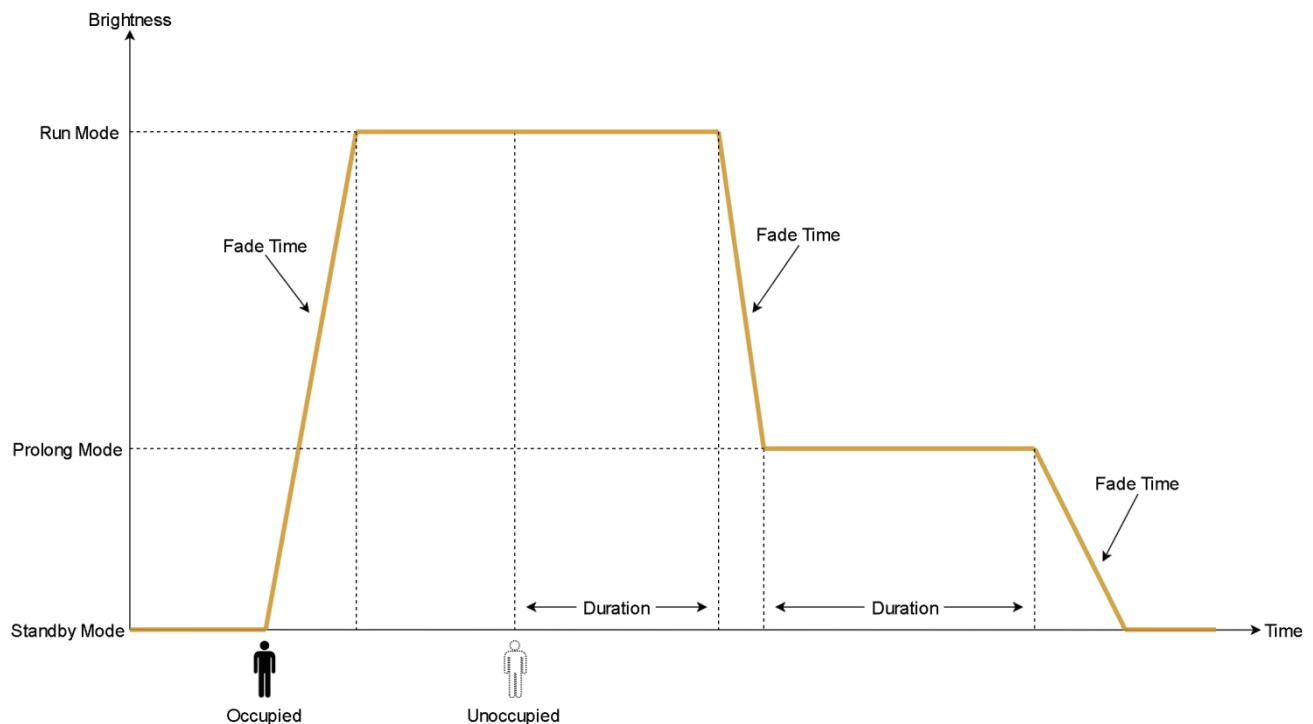


NETWORK STATUS INDICATION (BY GREEN LED)		
SIZE	120V	208V
UNPROVISIONED	30ms ON	300ms OFF
PROVISIONED	30ms ON	2000ms OFF
FACTORY RESET	100ms ON	1000ms OFF
MESH PACKAGE RECEIVED	30ms ON	50ms OFF
ATTENTION (FROM NETWORK)	500ms ON	500ms OFF

LIGHTING CONTROL SCENARIOS

Multiple lighting control scenarios are available once the Bluetooth mesh sensor is provisioned. At each scenario, duration, fade time and target brightness can be configured at any time with the iOS app.

EXAMPLE OCCUPANCY SCENARIO



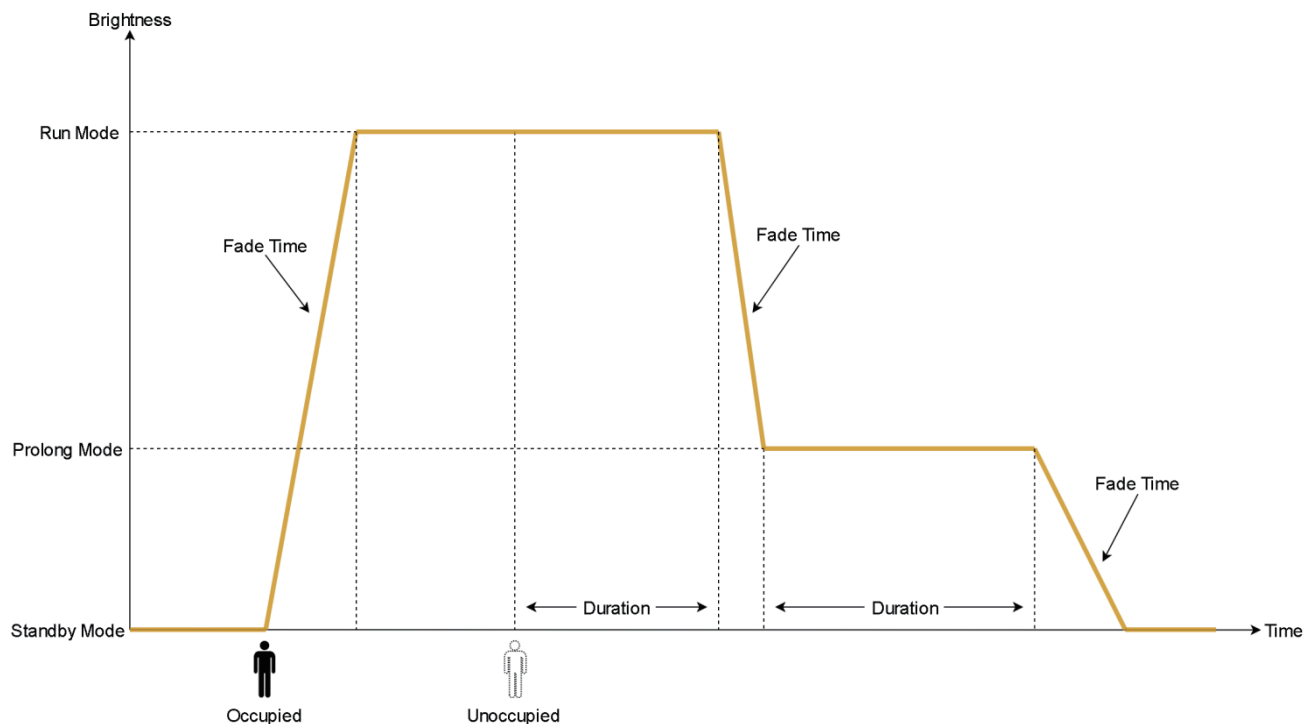


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ATTENTION (FROM NETWORK)	500ms ON	500ms OFF

LIGHTING CONTROL SCENARIOS

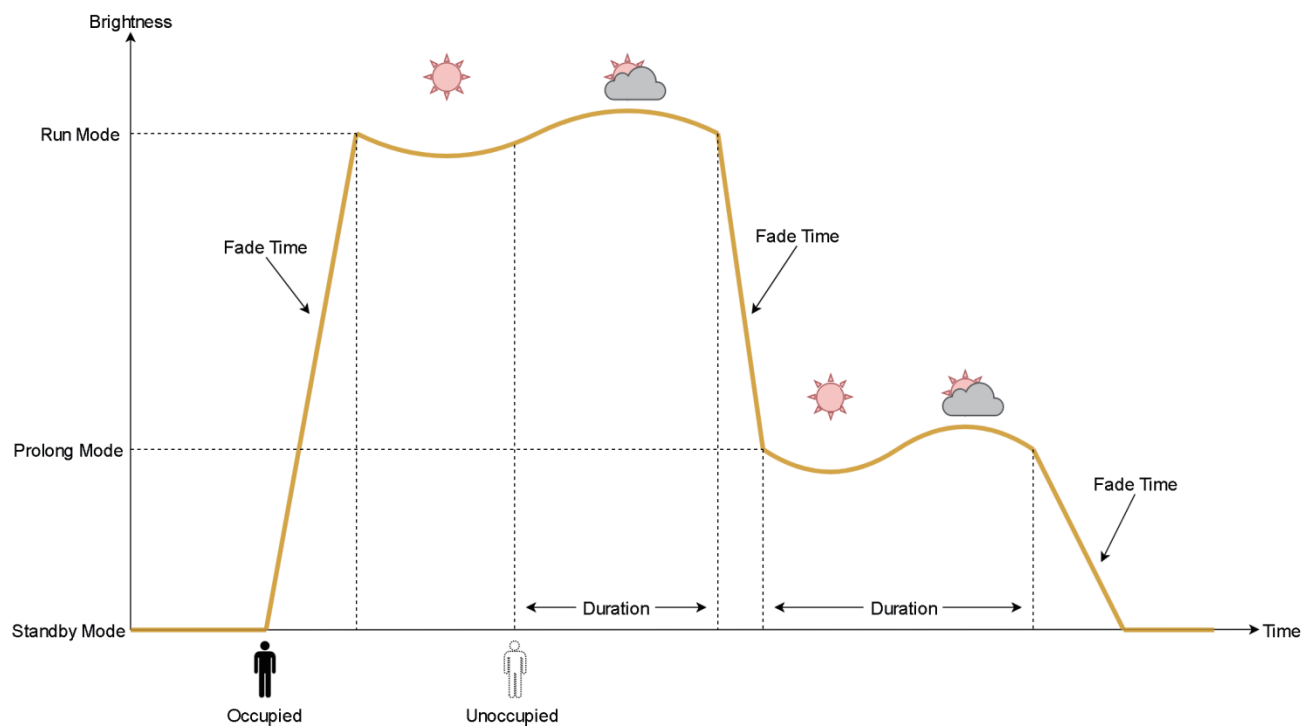
Multiple lighting control scenarios are available once the Bluetooth mesh sensor is provisioned. At each scenario, duration, fade time and target brightness can be configured at any time with the iOS app.

EXAMPLE OCCUPANCY SCENARIO

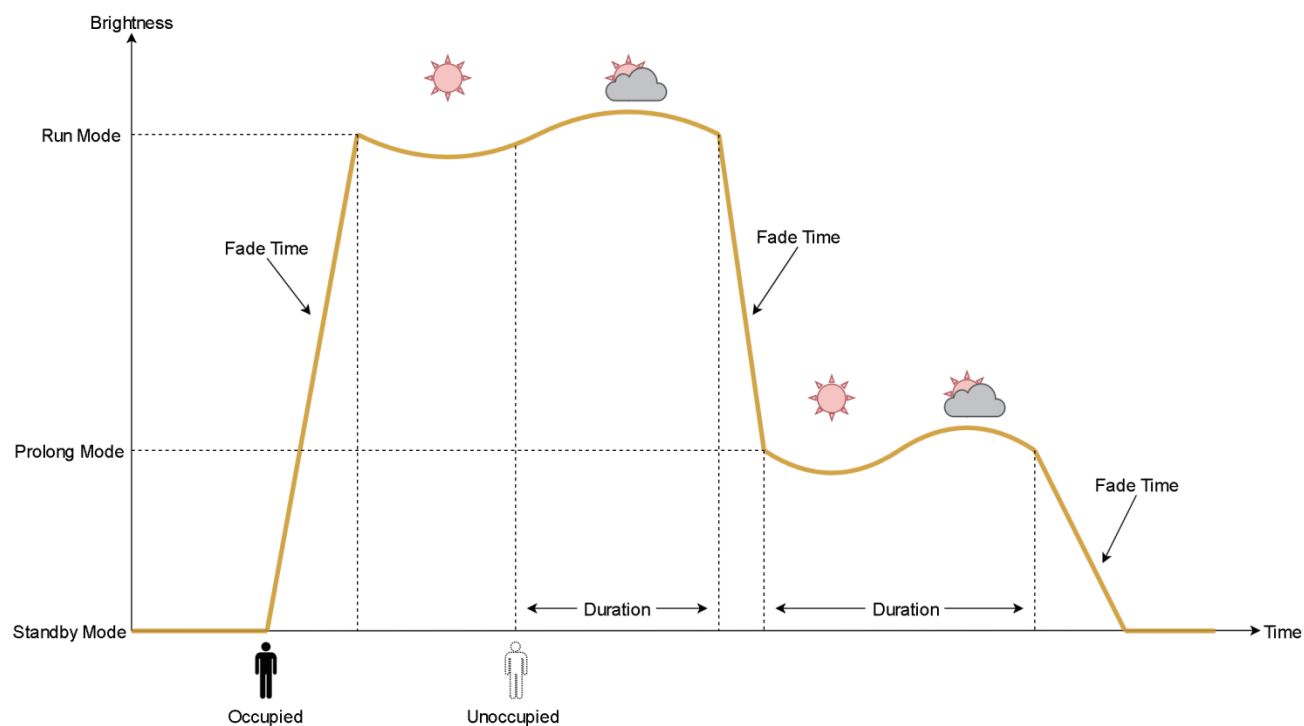




EXAMPLE OCCUPANCY SCENARIO W/ DAYLIGHT HARVESTING

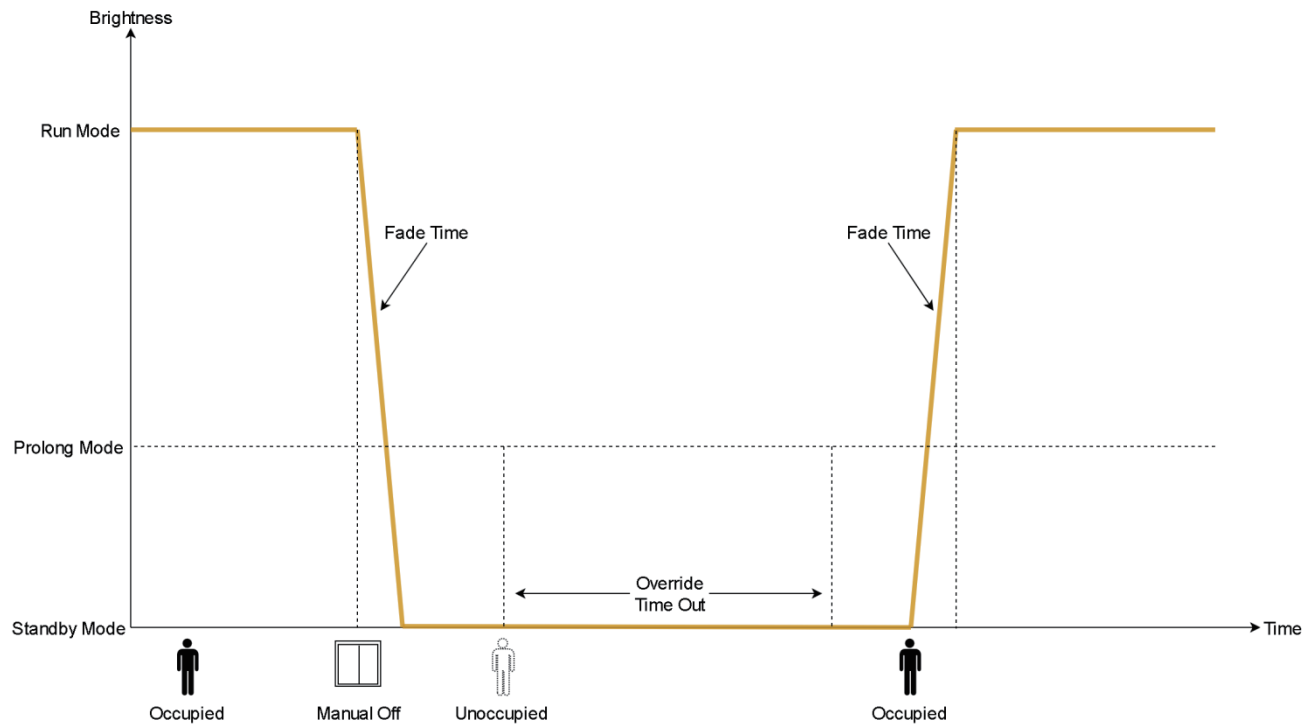


EXAMPLE VACANCY SCENARIO



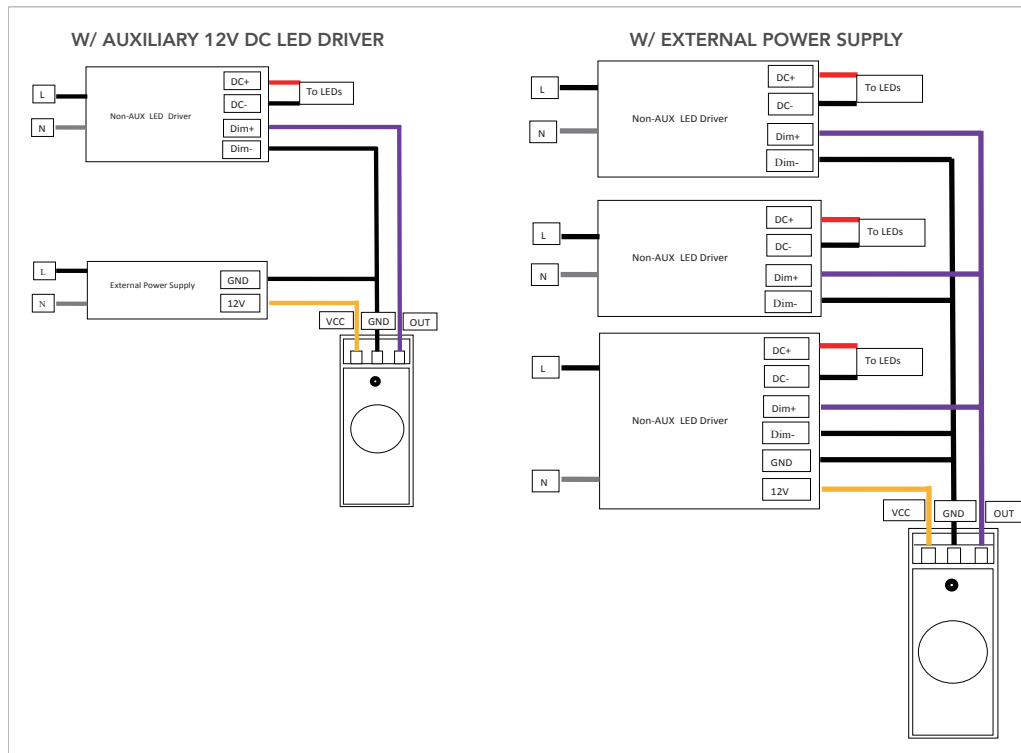


EXAMPLE OCCUPANCY SCENARIO W/ MANUAL OVERRIDE





WIRING DIAGRAM



DETECTION PATTERN

