RemPhos

TROFFER RETROFIT KITS (TRV/TRF)

PART # _____

JOB NAME _____

TYPE _____

Our Troffer Retrofit Kits have a new multipiece design and are easier to install than the competition. Packed with flex features and available in flat panel or volumetric design, Troffer retrofit kits are available in 2x2 and 2x4 sizes.

TRV

TRF

- New slim multipiece retrofit design.
- 2 sizes to choose from 2x2 & 2x4.
- SuperFlex 3 wattages, 3 CCTs.
- Choose from a volumetric or a flat panel design.
- Factory installed emergency battery back up available.
- Field installable **SIMPLE** & **NETWORK LIGHTING CONTROLS** options. As easy as plugging in a headphone jack! (see pgs. 2 & 6-8 for more details.)

SIMPLY REMOVE THE CAP AND PLUG IN THE SENSOR

SUPERFLEX SWITCH BETWEEN 3 WATTAGES & 3 CCTS

TAA	(5) YEAR WARRANTY	120-277V	0-10V DIMMING	80+ CRI	EMG OPTIONAL EMG BATTERY BACKUP	110° BEAM ANGLE	0°F TO 114°F OPERATING TEMP	2.5kA SURGE PROTECTION	L70 50,000hrs RATED LIFE

PART #	UPC	DESCRIPTION	LUMENS	WATTAGE	CCT
RP-TRV-2X2-24W-40K-WC-TAA	19781001593	2X2 VOLUMETRIC RETROFIT KIT	2000/2500/**3000**	16/20/**24**	3500K/**4000K**/5000K
RP-TRV-2X4-40W-40K-WC-TAA	19781001594	2X4 VOLUMETRIC RETROFIT KIT	3000/3750/**5000**	24/30/**40**	
RP-TRF-2X2-24W-40K-WC-TAA	19781001595	2X2 FLAT PANEL RETROFIT KIT	2000/2500/**3000**	16/20/**24**	
RP-TRF-2X4-40W-40K-WC-TAA	19781001596	2X4 FLAT PANEL RETROFIT KIT	3000/3750/**5000**	24/30/**40**	

*7324 IN STOCK DECEMBER 2024

DLC LISTED PREMIUM • c(UL)us LISTED • FC

Light Efficient Design

PART NUMBER BUILDER

MFR	PRODUCT	SIZE (FT.)	DEFAULT WATTAGE	DEFAULT CCT	FUNCTION	OPTIONS	LISTING	EMG
RP				40K	WC		TAA	EM1
	TRV	2X2	24W	40K = 4000K	WC = WATTAGE + COLOR SELECTABLE	OCC = PIR OCCUPANCY SENSOR	TAA = TRADE ACT AGREEMENT COMPLIANT	EM1 = 4W, 500 LUMENS, 90 MIN EMERGENCY BATTERY BACKUP
	TRF	2X4	40W			OCCBT = NETWORK LIGHTING CONTROL (PIR OCCUPANCY SENSOR)		

EXAMPLE PART NUMBER RP-TRV-2X2-24W-40K-WC-OCC-TAA-EM1

FIELD INSTALLABLE CONTROL OPTIONS

SIMPLE LIGHTING CONTROL	NETWORK LIGHTING CONTROL
-OCC	-OCCBT
NETWORK LIGHTING CONTROL PIR OCCUPANCY SENSOR IR12 REMOTE*	NETWORK LIGHTING CONTROL PIR OCCUPANCY SENSOR SILVAIR APP

**SIMPLY REMOVE THE CAP AND PLUG IN THE SENSOR**

FLEXWATT LUMENS @ 4000K

SIZE	POSITION 1	POSITION 2	POSITION 3
2X2	16W (2000LM)	20W (2500LM)	24W (3000LM)
2X4	24W (3000LM)	30W (3750LM)	40W (5000LM)

FIT COMPATIBILITY

The Troffer Retrofit Kit was designed to upgrade recessed 2x2 and 2x4 fixtures, including parabolic and lensed troffers from most major manufacturers. Example fixture dimensional requirements below. We also recommend a trial installation before placing an order.

EXISTING FIXTURE EXAMPLE

3.25″

23.75″

OUR RETROFIT KIT

20.5″

17.75″

2.75″

22.0″

23.8″
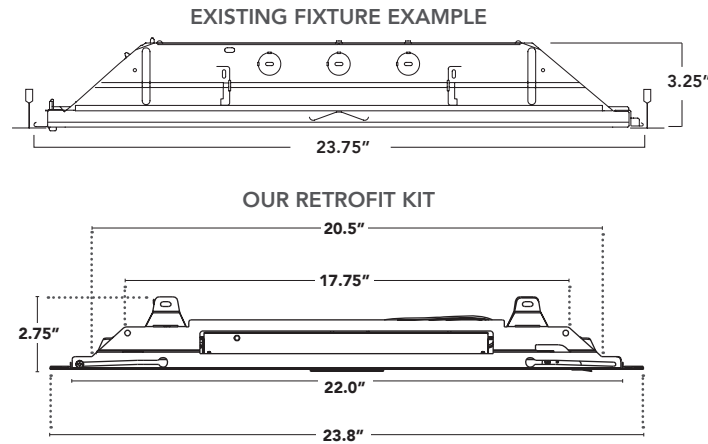
LIGHTING CONTROL SCENARIOS

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

EXAMPLE OCCUPANCY SCENARIO

BRIGHTNESS

RUN MODE

FADE TIME →

← FADE TIME

PROLONG MODE

← FADE TIME

STANDBY MODE

← DURATION →

← DURATION →

TIME

OCCUPIED

UNOCCUPIED
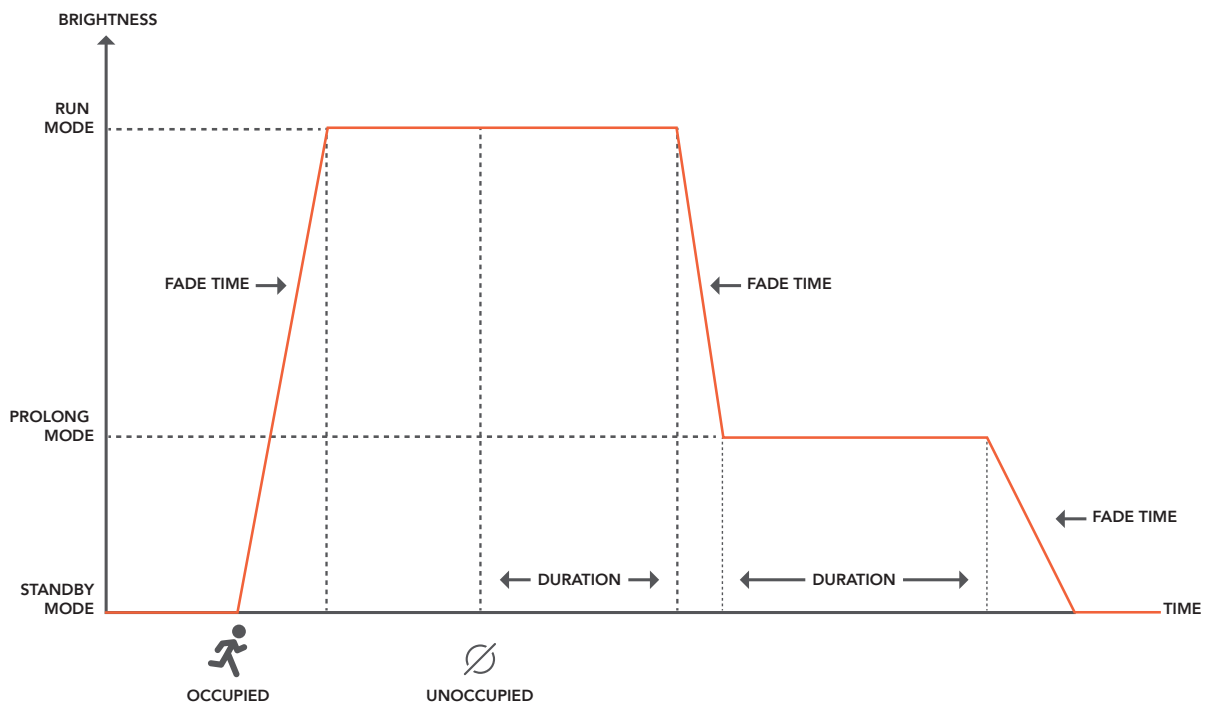
EXAMPLE OCCUPANCY SCENARIO W/ DAYLIGHT HARVESTING

BRIGHTNESS

RUN MODE

FADE TIME →

← FADE TIME

PROLONG MODE

← FADE TIME

STANDBY MODE

← DURATION →

← DURATION →

TIME

OCCUPIED

UNOCCUPIED
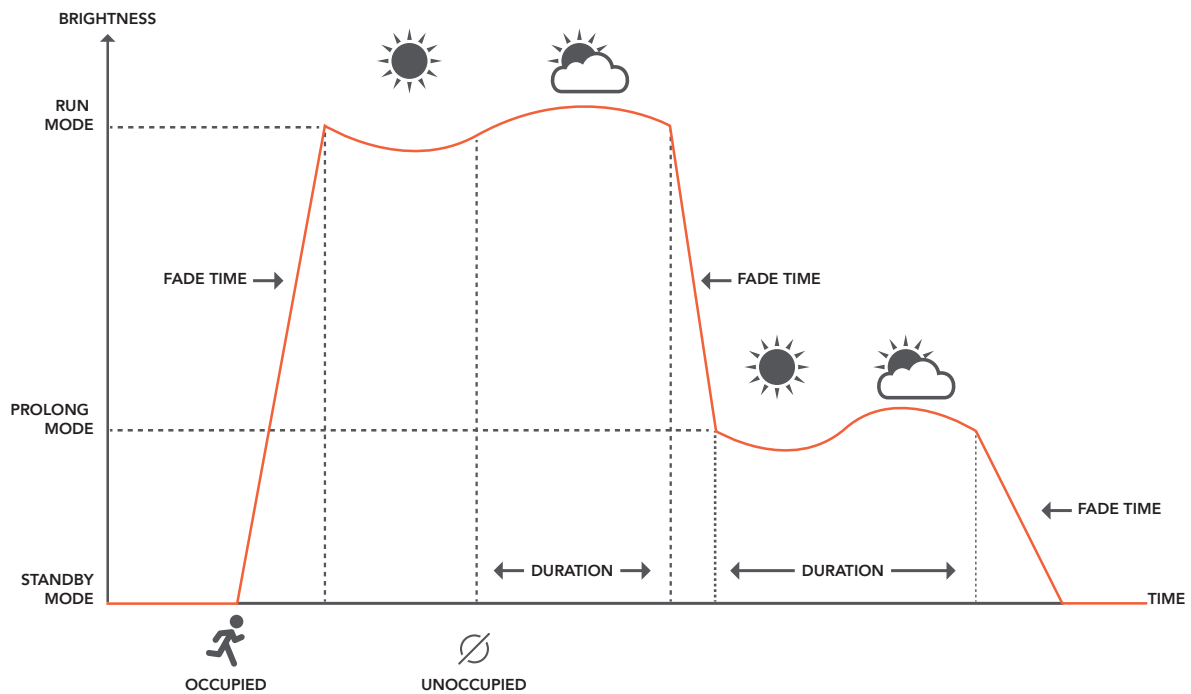
EXAMPLE VACANCY SCENARIO

BRIGHTNESS

RUN MODE

FADE TIME →

← FADE TIME

PROLONG MODE

← FADE TIME

STANDBY MODE

← DURATION →

← DURATION →

TIME

OCCUPIED   MANUAL ON   UNOCCUPIED

Light Efficient Design
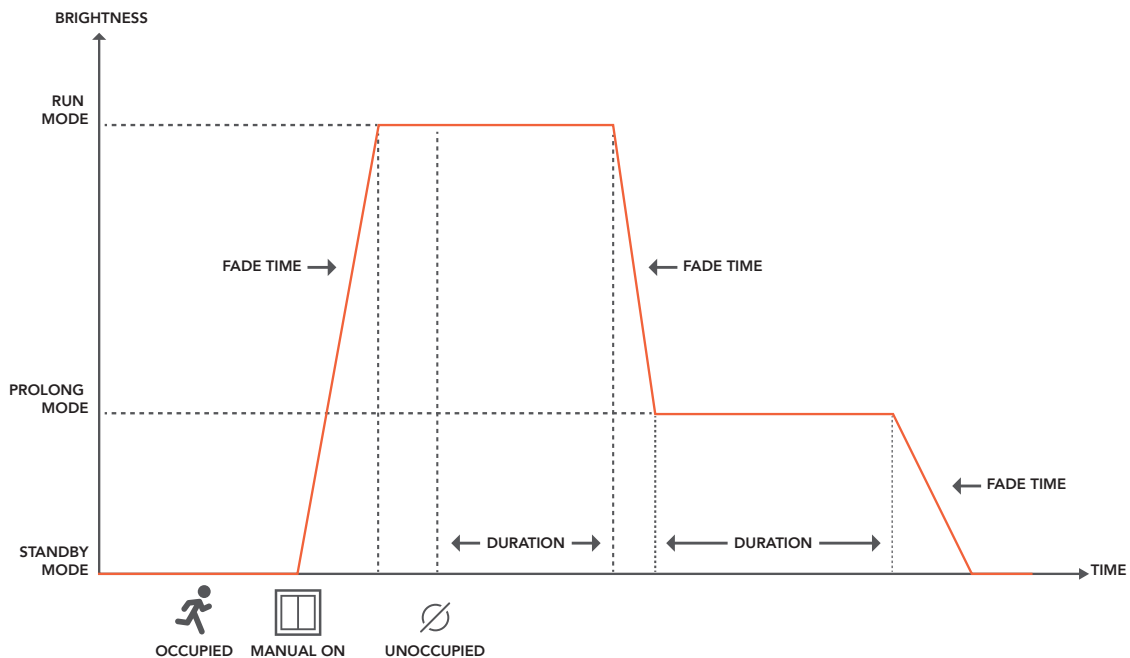
EXAMPLE OCCUPANCY SCENARIO W/ MANUAL OVERRIDE

BRIGHTNESS

RUN MODE

← FADE TIME   FADE TIME →

PROLONG MODE

STANDBY MODE

← OVERRIDE TIME OUT →

TIME

OCCUPIED   MANUAL ON   UNOCCUPIED
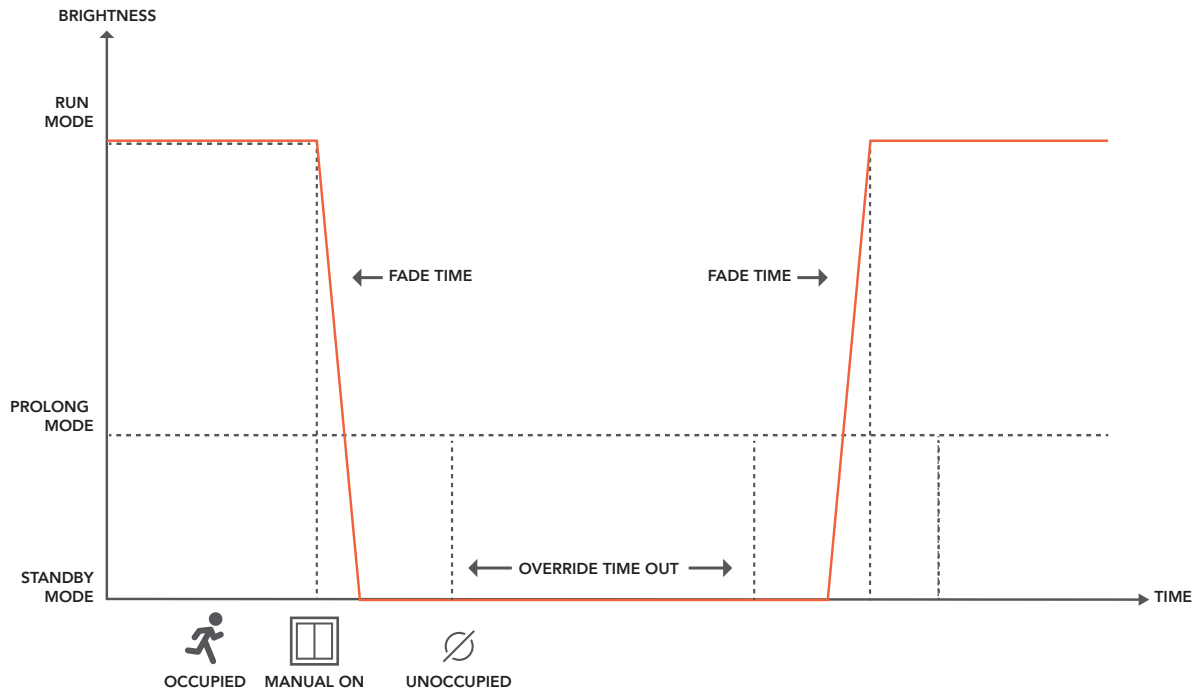
BLUETOOTH CONTROL

USE BLUETOOTH CONTROLS TO CONNECT TROFFERS TO YOUR PHONE AND/OR A WALL SWITCH

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ATTRIBUTES

DETECTION TECHNOLOGY	PASSIVE INFRARED (PIR)
DETECTION TYPE	OCCUPANCY
SENSOR POWER	12VDC
GROUPABLE	NO
NETWORK LIGHTING CONTROL	NO
COMISSIONING METHOD	IR REMOTE
REMOTE	IR12 -SUBJECT TO CHANGE
DAYLIGHT HARVESTING	YES
HI OR LOW TRIM	NO
BI-LEVEL DIMMING	YES
NETWORK TECHNOLOGY	NONE
INSTALLATION TYPE	AUDIO JACK (EXTERNAL)
DLC LISTED	YES

ADDING -OCC TO THE TROFFER RETROFIT KIT PART NUMBER UPGRADES THE FIXTURE WITH A FACTORY INSTALLED **SIMPLE CONTROL** UTILIZING A PASSIVE INFRARED SENSOR. IT ALSO COMES EQUIPPED WITH A DAYLIGHT HARVESTING SENSOR TO DIM AND/OR TURN OFF THE FLAT PANEL WHEN THE SPACE IS UNOCCUPIED OR SURROUNDING NATURAL LIGHT LEVELS ARE HIGH.

IR12 REMOTE - SUBJECT TO CHANGE

⏻ Permanent ON/OFF Function

Dim+/-

Auto Sensor Mode

Reset Function

Ambient Learn

Test Mode

FOR MORE INFORMATION ON THE IR12 REMOTE SCAN BELOW

DETECTION PATTERN / OCC

CEILING MOUNTING

DETECTION RANGE (FT)

WALL MOUNTING

DETECTION DISTANCE (FT)
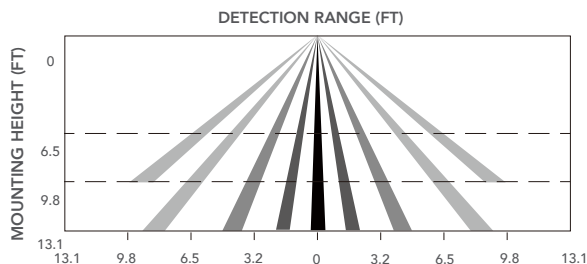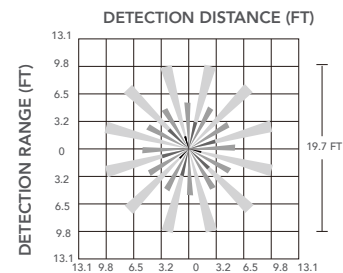
DAYLIGHT HARVESTING / OCC

Sensor detects the difference between natural light and artificial light (lamp) from behind the diffuser, switch on automatically (even without movements) when the ambient light is below the target value, and switch off automatically whenever the artificial light is not required (ambient light meets target level).

NOTE LUX-OFF SAMPLING TIME - 30S. LUX-ON SAMPLING TIME - 10S. LUX-ON FUNCTION WILL ONLY OPPERATE WITHOUT MOTION WHEN STANDBY IS SET TO + ∞.

Brighter

Lights turn on   Lights turn off

Lux Off Level

Ambient Light Level

Lux On Level

Lux Time   Lux Time

Darker   Occupancy detected

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ADDING **-OCCBT** TO THE TROFFER RETROFIT KIT PART NUMBER UPGRADES THE FIXTURE WITH A FACTORY INSTALLED **NETWORK LIGHTING CONTROL**.ONCE CONNECTED THROUGH THE SILVAIR APP, THE BLUETOOTH PASSIVE INFRARED SENSOR AND DAYLIGHT HARVESTING TECHNOLOGY CAN MAXIMIZE ENERGY SAVINGS.

DLC LISTED
NLC LISTED

*SEE NEXT PAGE FOR MORE INFORMATION ON SILVAIR APP

ATTRIBUTES

DETECTION TECHNOLOGY	PASSIVE INFRARED (PIR)
DETECTION TYPE	OCCUPANCY / VACANCY
SENSOR POWER	12VDC
GROUPABLE	YES
NETWORK LIGHTING CONTROL	YES
COMISSIONING METHOD	SILVAIR APP* + IR REMOTE FOR RANGE SETTING
REMOTE	N/A
DAYLIGHT HARVESTING	YES
HI OR LOW TRIM	YES
BI-LEVEL DIMMING	YES
NETWORK TECHNOLOGY	BLUETOOTH
INSTALLATION TYPE	AUDIO JACK (EXTERNAL)
DLC LISTED	YES + DLC NLC

SILVAIR APP

Corridor	
DEVICES	SETTINGS	TEST

A scene | B scene
On | Off | Auto

All luminaires 15 %
0 10 50 100

Luminaire 1 15 %
0 10 50 100

Luminaire 2 15 %
0 10 50 100

SILVAIR IS A SOFTWARE AND COMMISSIONING APP THAT CONNECTS AND CONTROLS LIGHTING FIXTURES USING BLUETOOTH MESH TECHNOLOGY.

Download on the APP Store

Google Play

Silvair
Lighting commissioning app OPEN
★★★★☆

S 100+ Downloads Everyone ⓘ
Install

FOR MORE INFORMATION ON THE SILVAIR APP SCAN BELOW OR SEE PG. 10

DETECTION PATTERN / OCCBT

CEILING MOUNTING

DETECTION RANGE (FT)

MOUNTING HEIGHT (FT)
0
6.5
9.8
13.1
13.1 9.8 6.5 3.2 0 3.2 6.5 9.8 13.1

WALL MOUNTING

DETECTION DISTANCE (FT)

DETECTION RANGE (FT)
13.1
9.8
6.5
3.2
0
3.2
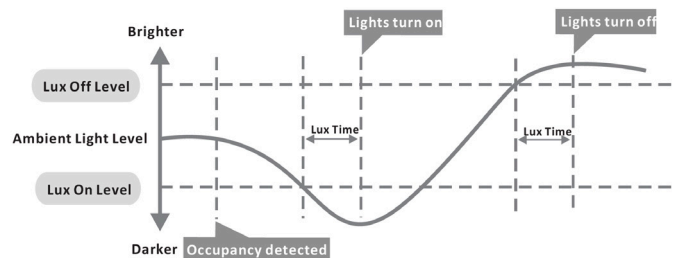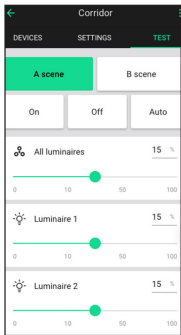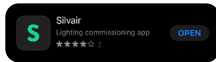6.5
9.8
13.1
13.1 9.8 6.5 3.2 0 3.2 6.5 9.8 13.1

19.7 FT
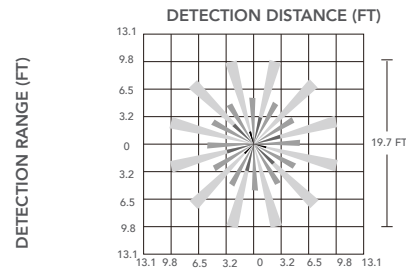
DAYLIGHT HARVESTING / OCCBT

Sensor detects the difference between natural light and artificial light (lamp) from behind the diffuser, switch on automatically (even without movements) when the ambient ligh t is below the target value, and switch off automatically whenever the artificial light is not required (ambient light meets target level).

NOTE LUX-OFF SAMPLING TIME - 30S. LUX-ON SAMPLING TIME - 10S. LUX-ON FUNCTION WILL ONLY OPPERATE WITHOUT MOTION WHEN STANDBY IS SET TO + ∞.

Brighter
Lights turn on   Lights turn off
Lux Off Level
Ambient Light Level   Lux Time   Lux Time
Lux On Level
Darker Occupancy detected

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SILVAIR APP + COMMISSIONING OVERVIEW

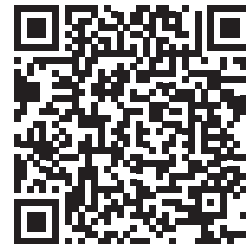REMPHOS ···· SILVAIR ···· SCALABLE ···· ROBUST ···· LOW ENERGY
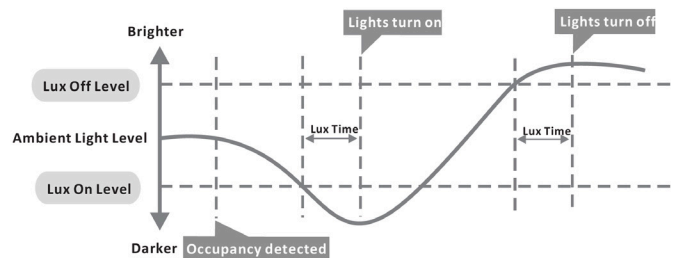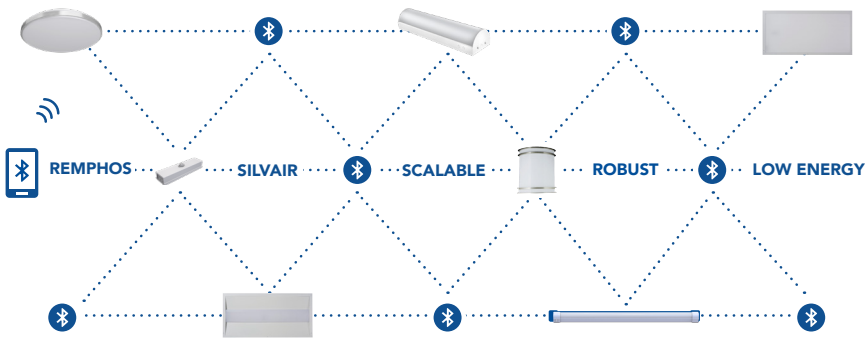
WHAT IS SILVAIR?

Silvair is a software and commissioning app that connects and controls lighting fixtures using Bluetooth mesh technology.
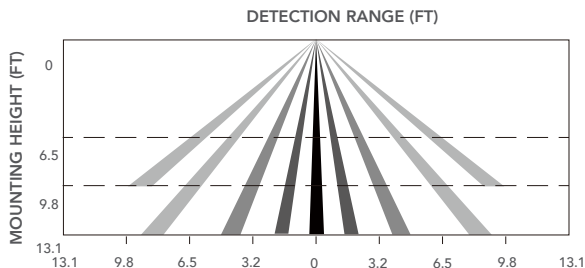
HOW DOES IT CONNECT?

Silvair can be set up in advance through the cloud and the Silvair portal. It can also be commissioned in the field with the IOS app.

DOWNLOAD SILVAIR APPS

Download on the **APP Store**

S Silvair
Lighting commissioning app · OPEN
★★★★☆ 2

MOBILE APP Apple App Store
or
WEB APP platform.silvair.com

SILVAIR

Advanced lighting control has never been *easier*

QUALIFIED BLUETOOTH® MESH

Choose from a library of **ready-to-use profiles**

New zone · SAVE

P1. Storage room
Manual control
P2. Restroom
Occupancy sensing
P3. Warehouse
Occupancy sensing
P4. Egress corridor
Occupancy sensing
P5. Conference room
Vacancy sensing with daylight harvesting
P6. Laboratory
Occupancy sensing with daylight harvesting
P7. Open office
Occupancy sensing with daylight harvesting
P8. Outdoor
Multiple scenes
P9. Lobby
Multiple scenes

Customize settings to meet your lighting needs

P5 - Conference Room

Scenario
Occupancy sensing

Occupied
Timeout 10 min
Light level

Fade time 1 sec

Prolonged
Timeout 0 min
Light level

Energy-efficient control strategies at your fingertips

Calibration

Light sensor
Light level
Measured light level 20 lx
CALIBRATE

Daylight controller
SLOW — FAST
CALIBRATE

Calibration test · RUN TEST

Support for self-powered **EnOcean switches**

Conference room
DEVICES · SETTINGS · TEST

Device A3F0
Proxy
Relay
EnOcean
REMOVE
Monitoring · Diagnostic
Device C5C7 · PROXY
Device DF41 · RELAY
Device B2B9

Add devices to zones with **a single tap**

Add devices
25% Discovering
Completed 0 · Incompleted 0
Device 95D4
Device B45E
Device B009
NEAR — ALL

Work on actual **floor plans**

Area 1
Zone 1
Zone 2
Zone 3
3 zones · NEW ZONE

No lighting control expertise required!

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08.08.24 Information is subject to change without notice.

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