

Sensor-based LED Troffer Light



Wattages: 20W, 25W, 30W, 34W, 38W, 45W



The Sensor-based LED Troffer Light Series can be used for various indoor applications. Excellent for offices, hallways, multipurpose rooms, office buildings, conference rooms, supermarkets, stores, and many other applications.

Lighting controls meet design lights consortium (DLC) networked lighting control system technical requirements, LLLC, Energy Monitoring and High End Trim function.



Features:

- Energy Efficient: Save up to 80% in energy costs
- High Lumen Output
- Mercury-free
- Instant-on Light
- 50,000 Hours at 70% Lumen Maintenance Rated Life
- 5 Years Manufacturer Warranty
- Compatible with Most Lutron and Leviton Dimmers
- 12Vdc Auxiliary Dimming
- 0-10V Continuous Dimming

Packaging Information:

❖E2-TRF-1X4-20/25/30W-35/45K-G2:

1230mm X 307mm X 113mm (2Pcs/CTN)
(48.4" X 12.1" X 4.4")

❖E2-TRF-2X2-20/25/30W-35/45K-G2:

617mm X 610mm X 123mm (2Pcs/CTN) (24.3" X 24.0" X 4.8")

❖E2-TRF-2X4-34/38/45W-35/45K-G2:

1227mm X 610mm X 123mm (2Pcs/CTN)
(48.3" X 24.0" X 4.8")

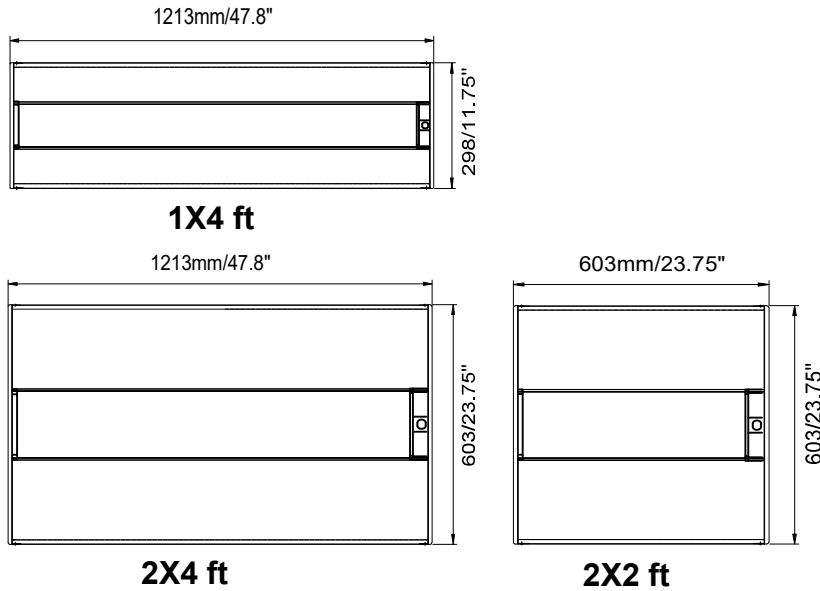
SPECIFICATION			
TYPE	E2-TRF-1X4-20/25/30W-35/45K-G2	E2-TRF-2X2-20/25/30W-35/45K-G2	E2-TRF-2X4-34/38/45W-35/45K-G2
WATTAGE	20W/25W/30W	20W/25W/30W	34W/38W/45W
LUMEN	2500 lm/3225 lm/3950lm	2570 lm/3125 lm/3850lm	4250 lm/4758 lm/5715lm
15W EMERGENCY LUMEN	1725lm (WSD-EMLY15W27-XX)		
EFFICACY	> 125 lm/W		
CCT	3500K,4000K,5000K		
CRI	> 80		
INPUT VOLTAGE	AC120-277V		
FACTORY SETTINGS	30W & 4000K		45W & 4000K
LIGHTING ANGLE	119°		
LED TYPE	SMD2835		
PF	> 0.98		
DRIVER EFFICIENCY	> 90%		
PROTECTION LEVEL	Damp		
LIFE TIME	> 75000 hours		
IC RATING	Type IC		
WARRANTY	5 year limited		

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DIMENSIONS:



Specifications:

Troffer-14/22/24

Length: 1213MM/603MM/1213MM
(47.8"/23.75"/47.8")

Width: 298MM/603MM/603MM
(11.75"/23.75"/23.75")

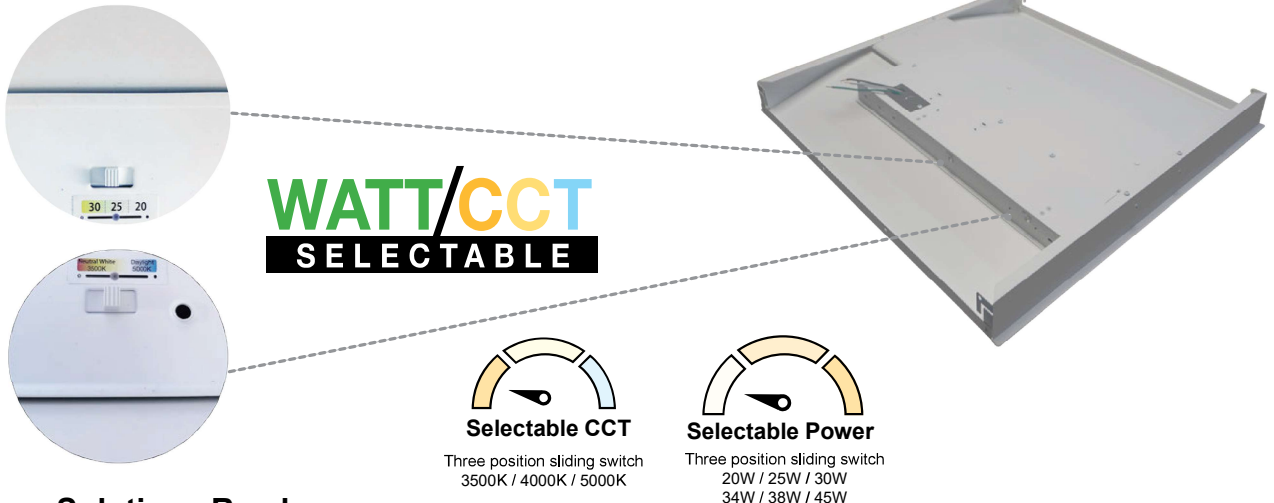
Depth: 50MM/54MM/54MM (2.0"/2.13"/2.13")

Weight: 7.7/6.8/11.4(lbs)

Mounting:

❖ Embedded Installation.

CONTROL MODULE:



Multiple Sensor Solutions Ready

- Quick and easy in-field installation of sensors.

- Integrated occupancy and daylight controls.



The sensor receptacle is pre-embedded in the profile frame.

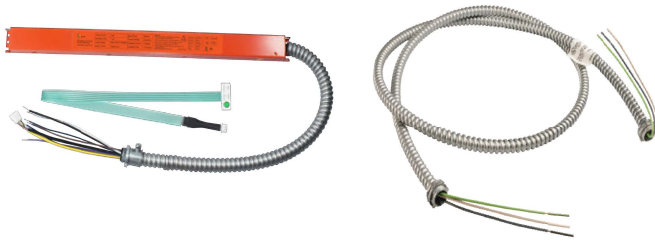
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ACCESSORIES: (SOLD SEPARATELY)

CONTROL (SOLD SEPARATELY)



E2-EMLY15W27-XX
15W Emergency Backup
Battery LED Driver

6FTPRWG-3/8-3PIN
6FTPRWG-3/8-5PIN
6FTPRWG-3/8-6PIN
6FT 3/8 inch Metal Flexible Conduit



Bluetooth
ANT-1P-4T-BLE-SR
PIR Bluetooth
Microwave Sensor
For Silvar Systems



ANT-1P-4T
Bi-Level PIR
Infrared Sensor



RC100(With ANT-1P-4T use)
Remote Controller

ACCESSORIES: (ACCESSORIES NEED TO PURCHASED SEPARATELY)



E2-TF14FRAME-W
2X2 feet SURFACE MOUNT KIT

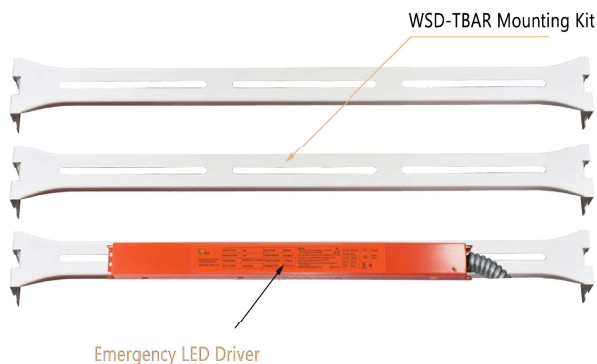


E2-TF22FRAME-W
2X4 feet SURFACE MOUNT KIT

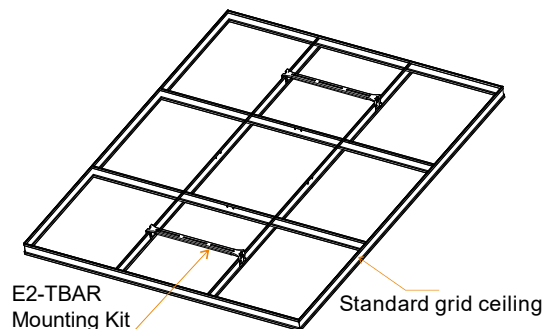


E2-TF24FRAME-W
1X4 feet SURFACE MOUNT KIT

WSD-TBAR Mounting Kit (SOLD SEPARATELY)



E2-TBAR
Emergency Backup
Battery LED Driver Mounting
Kit



E2-TBAR Mounting Kit for Emergency LED Driver
When emergency drivers can not be installed on the LED lights such as LED downlights, LED panel lights & LED troffer. We can install the emergency led drivers on the E2-TBARs and E2-TBARs are installed on the grid ceiling.

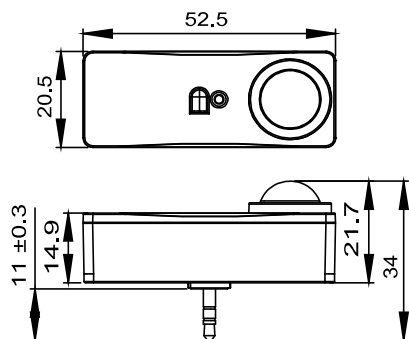
Sensor-based LED Troffer Light



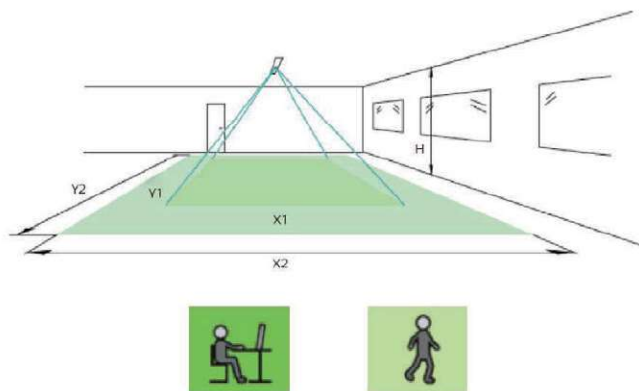
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DIMENSION



COVERAGE



Height H	Minor Movement		Major Movement	
	Y1	X1	Y2	X2
8'/2.4m	10'/2.9m	9'/2.7m	15'/4.5m	9'/2.9m
10'/3m	12'/3.6m	11'/3.4m	18'/5.4m	12'/3.6m

Note: Longer dimension of detection area (Y1, Y2) is parallel to longer dimension.

COMMISSIONING

Silvair iOS App makes it easy to pair devices, create groups, set scenes/schedules, customize dimming levels, and adjust high trim based on application needs.

ANT-1P-4T-BLE-SR

Plug and Play Network BLE Nodes and Sensor

The ANT-1P-4T-BLE-SR uses PIR motion detector architecture and passive infrared (PIR) technology for improved detection coverage for high bay applications.

FEATURES

- Bluetooth to 0-10V signal converter, Bluetooth mesh network.
- Built-in 20mA 0-10V signal output.
- Mesh network, which has a much longer control distance, transmits received signals to neighboring devices.
- All devices on 0-10V line are broadcast controlled by mobile application
- In typical outdoor environment, the typical range for wireless communication is 60m.
- Actual range is dependent on field installation.
- Available with Magnetic reset (Touch the top part of sensor for 5 seconds).
- On-board antenna.

SPECIFICATION

NETWORK BLE MESH	Yes
DAYLIGHT HARVESTING	Yes
MICROWAVE MOTION SENSOR	Yes
MOTION SENSOR	Passive infrared sensor
OPERATING VOLTAGE	10-14V DC
OPERATING CURRENT	>50mA
SINKING CURRENT	max. 25mA
CONTROL OUTPUT	0-10V
RADIO FREQUENCY	2.4GHz ± 75MHz
DETECTION ANGLE	360 °
PROGRAMMING	Silvair iOS App (IOS)
CYBERSECURITY	UL
MOUNTING HEIGHT	12ft Max.
MAX BLUETOOTH RANGE	200ft
SAFETY	cULus Listed
FCC	FCC
OPERATING TEMP.	-20°C - +60°C
IP RATING	IP20
WARRANTY	5 year limited

Silvair App



iOS

Please scan and
download the app:

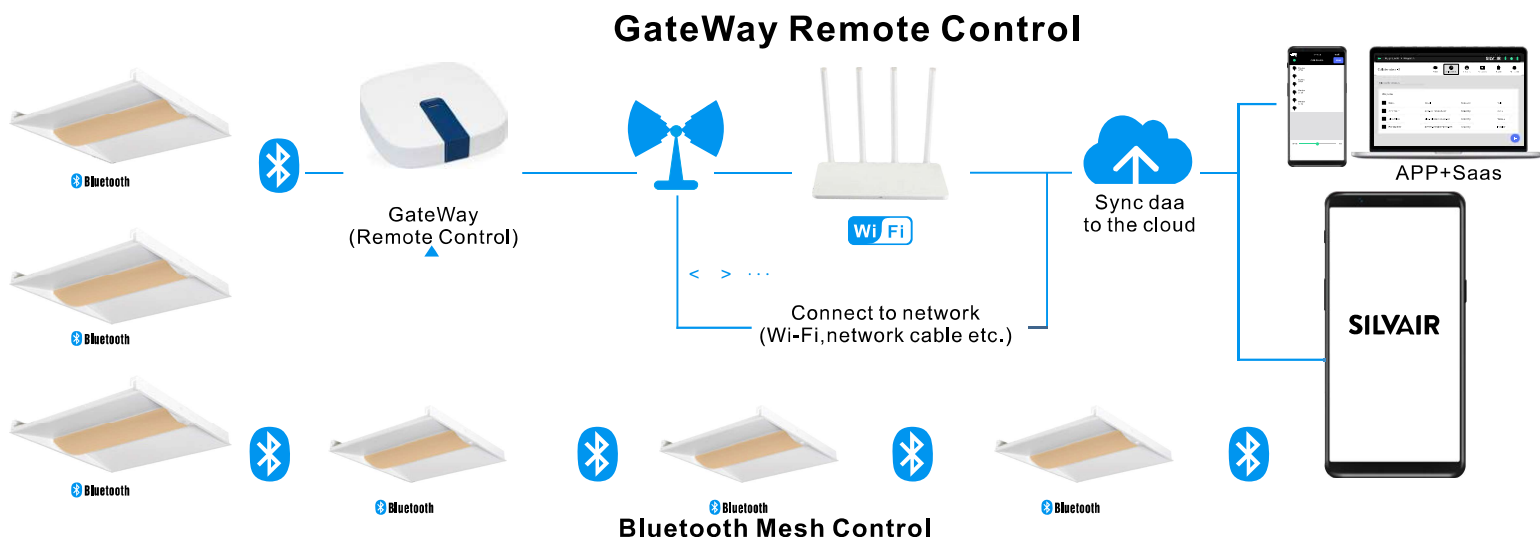
Operation Instruction:

https://youtu.be/8KWPK7z_Tng

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Functions:

The Silvar Gateway enables the following functions in the Silvar web app: • Scheduling (available by default)

- Scheduling changes in scenes and lighting control scenarios (for example occupancy sensing, daylight harvesting) for specific times or days.
- Energy and occupancy monitoring (additional paid service)
 - Visualizing energy use and occupancy via the Silvar web app.
 - Downloading energy and occupancy via the Silvar web app and cloud-based API.
- Remote monitoring and control (additional paid service)
 - Low-latency monitoring of the status of devices in the network via API.
 - Low-latency control of devices in the network via API.
- System diagnostics
 - Monitoring of the status of Bluetooth mesh networks.
 - Remote troubleshooting of networking issues.

Features:

- Future-proof Linux operating system.
- Simple commissioning using the Silvar Commissioning tools.
- Automatic connection to the Silvar cloud.
- Secure provisioning with secure IDs and encrypted keys.
- High level of hardware and software security (secure boot and encrypted file system can only be accessed with the management platform).
- Automatic security updates.
- Prompt releases of OS updates and fixes to vulnerabilities.
- Low-latency transfer of network, luminaire, and sensor status data to the Silvar cloud.
- Schedule caching.
- Automatic remote firmware updates.
- Display of gateway and network performance metrics (requires the Silvar web app).

INDUSTRIAL GATEWAY

SGW-101

Smart Engineering Gateway

The Silvar Gateway connects Bluetooth mesh networks that have been commissioned using the Silvar Commissioning tools to the Silvar cloud. This allows the scheduling of events and delivery of services based on the data generated by these networks.

SPECIFICATION

POWER SUPPLY	4.5–5.5 V DC, 2 A Power over Ethernet 36–57 V DC (IEEE 802.3af)
OPERATING SYSTEM	Ubuntu Core
PROCESSOR	i.MX6ULL (Y2), 32-bit ARM 800 MHz
MEMORY	512 MB DDR3L SDRAM 8GB eMMC
COMMUNICATION PROTOCOLS	Bluetooth mesh (2.4 GHz Bluetooth Low Energy) Wi-Fi 802.11a/b/g/n/ac (2.4/5 GHz) 4G LTE Cat 1 with 2G/3G (only for Cascade-500-W and Cascade-500-X gateways)
PORTS	1 x RJ45 10/100 Ethernet 1 x USB 2.0 Type-A 2 x external dipole antenna, 5 dBi (only for Cascade-500-W and Cascade-500-X gateways)
REQUIRED AMBIENT TEMPERATURE	0°C to 60°C 32°F to 140°F
ENCLOSURE DIMENSIONS	127 mm x 127 mm x 30 mm (5 inch x 5 inch x 1.2 inch)
MOUNTING POSITION	Wall or surface mounted. As close to the geometrical center of the lighting network as possible, but as far as possible from potential sources of interference.
SECURITY	Secure boot with encrypted operating system Secure communication with the Silvar Cloud over Internet (TLS) Secure communication with devices over qualified Bluetooth mesh