ALS®
Advantage Lighting Solutions

TRMA SERIES G2 SELECTABLE LED TROFFER

Client:
Project:
Type:
Quantity:

CONSTRUCTION
22-gauge metal frame, 95% reflective white polyester powder coat bonded to phosphate-free multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency and inhibit corrosion. All corners are rounded for safe handling. Multiple wiring entrances on driver enclosure for easy access. Integral T-bar clips for installation into T-grid ceilings.

OPTICS
Backlit design provides exceptional lighting distribution. Frosted polycarbonate lens offers edge to edge smooth illumination for maximum visual comfort.

ELECTRICAL
Long-life LEDs, coupled with a high-efficiency driver, provide superior illumination for extended service life. Greater than 70% LED lumen maintenance at 60,000 hours (L70>60,000).
Selectable lumen and CCT technology allows easy field-adjustable capability, luminaire ships with maximum output and 4000K CCT setting.
All CCTs are within 3 MacAdam ellipses.
Driver operates at 120-277V input, 0-10V dimmable driver, down to 10%.

SENSORS (OPTIONAL)
CONTROL-LVFA AVI-ON Bluetooth Mesh Controller
CONTROL-BLE-620 Bluetooth Wireless Fixture Controller for CCT Tuning, Dimming, Grouping, Scheduling Features (ALS Control Mobile App)

MOUNTING
Designed to accommodate lay-in ceilings, Slot T, and T-bar suspension system for 5/8" and 3/8" width.
Built-in earthquake clips come standard.
Surface/cable mount applications, use surface/cable kit accessories.
Plaster or sheetrock installations, select flange kit.

STANDARD FINISH
Matte White finish.

CERTIFICATION
Damp location label standard.
Meets Buy America Act requirements.
All luminaires are built to UL1598 standards and bear appropriate cULus labels.
For Emergency application, equipment with UL924 certified battery packs.
DLC® Premium (DesignLights Consortium Qualified).

WARRANTY
5 year warranty, see Limited Warranty for additional information.

TRMA-G2-4

SHIPPING DATA

Product	Measurement	Weight
TRMA-G2-2 (2-pack)	25"L x 26"W x 3"H	15.5 lb
TRMA-G2-4 (2-pack)	50"L x 26"W x 3"H	32 lb

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ORDER INFORMATION				EXAMPLE: TRMA 2 G2 WH UD
Fixture	Series	Model	Finish	Input
	TRMA		**WH**	**UD**

Mounting

Accessories
Options

A · SERIES

TRMA	Selectable Lumen and CCT LED Metal Troffer

B · MODEL

Code	Size	Power	CCT
2-G2	2x2	25W / 30W / 35W	3000K / 3500K / 4000K / 5000K
4-G2	2x4	25W / 30W / 35W / 40W / 50W	3000K / 3500K / 4000K / 5000K

C · FINISH

WH	White

D · INPUT

UD	120-277V, 0-10V Dimming

G · MOUNTING

blank	Standard lay-in
MOUNT-LP-22-FGK	1.52" Tall 2x2 Flange Kit (Plaster, Sheetrock or Drywall)
MOUNT-LP-24-FGK	1.52" Tall 2x4 Flange Kit (Plaster, Sheetrock or Drywall)
MOUNT-LP-22-SMK	4" Tall 2x2 Surface Mount Kit
MOUNT-LP-24-SMK	4" Tall 2x4 Surface Mount Kit

H · ACCESSORIES/OPTIONS

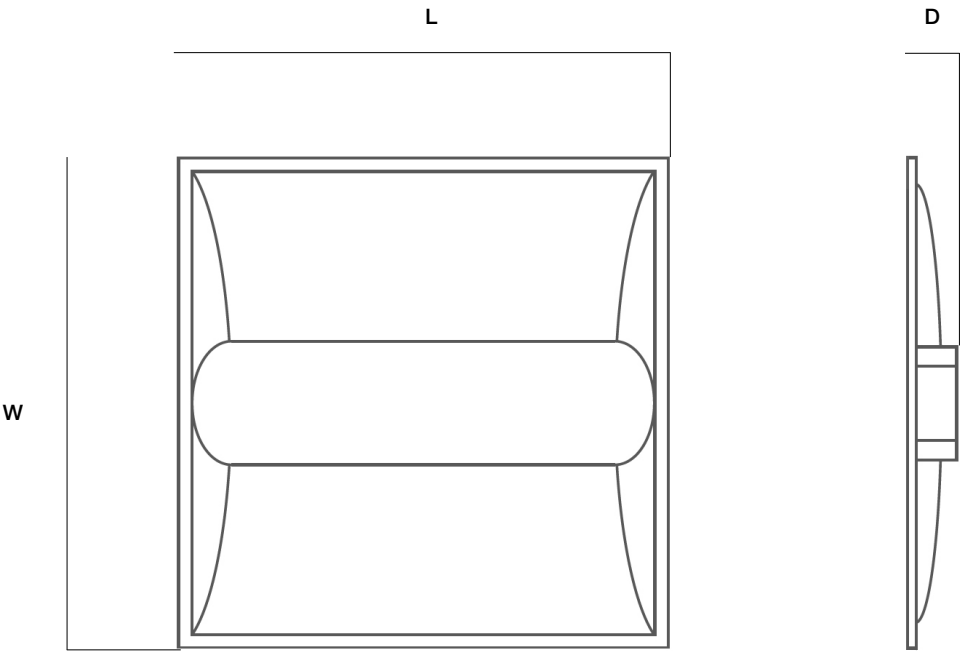| AIA	Assembled in America, compliant with BAA (COTS)
-C	3/8" x 6FT Steel Flex 5-18AWG Solid 6' leads BLK/WH/GRN/PUR/PNK & 3/8" Die Cast Screw-In Locknut Connectors
CONTROL-LVFA*	AVI-ON Bluetooth Mesh Control System
CONTROL-BLE-620*	Bluetooth Wireless Fixture Controller for CCT Tuning, Dimming, Grouping, Scheduling Features (ALS Control Mobile App)
EMB-18W-B*	90-Minute Self-Diagnostic Emergency Battery 18W 100-347VAC Input 170VDC Output
GTD-ESRLUD**	Emergency Battery Generator Transfer Device 120-277 VAC Input

*see page 5 for sensor and emb spec

**see page 8 and 9 for GTD spec

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DIMENSIONS

Model	L	W	D
TRMA-G2-2	23.74" (603mm)	23.74" (603mm)	1.80" (45mm)
TRMA-G2-4	47.76" (1213mm)	23.74" (603mm)	1.80" (45mm)

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PERFORMANCE DATA

SYSTEM WATTS	SIZE	VOLTAGE	LUMEN	LPW	QTY ON PALLET
25W	2x2	120-277V	3250	130	120
	2x4	120-277V	3250	130	120
30W	2x2	120-277V	3900	130	120
	2x4	120-277V	3900	130	120
35W	2x2	120-277V	4550	130	120
	2x4	120-277V	4550	130	120
40W	2x4	120-277V	5200	130	60
50W	2x4	120-277V	6500	130	60

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TRMA SERIES G2 SELECTABLE LED TROFFER

SENSOR SPEC

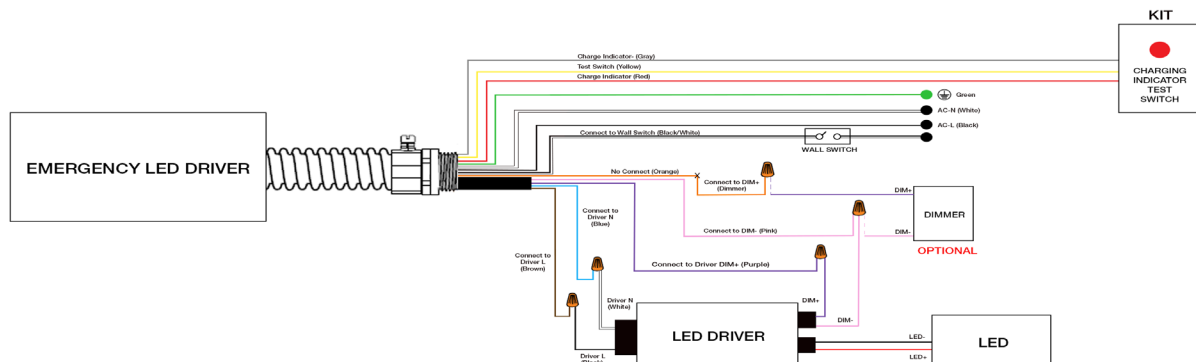| Model	Type	Mounting	Coverage	Input	Function	Programmable
CONTROL-LVFA (see page 6 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App
CONTROL-BLE-620 (see page 7 for detail)	Fixture Controller	Integral to Fixture	-	12V DC	CCT Tuning Dimming Grouping Time Schedule	ALS Control Bluetooth Mobile App

CONTROL-BLE-620   CONTROL-LVFA

EMB SPEC

Model	Battery Capacity	Input	Output	Output Power	Operating Temp	Installation
EMB-18W-B	90mins	100-347VAC	170VDC	18W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install

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CONTROL-LVFA SPEC

Status LEDs & Config Button
Quick and easy validation of wiring and network

Direct Connect™ Sensor Port
Simple and cost-effective addition to Avi-on sensors

Terminal Blocks & Mounting Tabs
Faster, easier and lower cost installation eliminating connectors

Internal Antenna
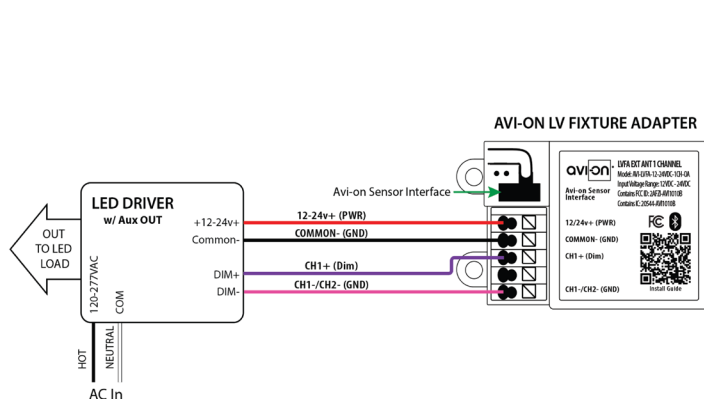Improved performance and eliminates risk of accidentally cutting a hanging wire

SPECIFICATIONS

INPUT VOLTAGE: 12-24VDC
CURRENT:
15mA without a Sensor
19mA with a DC PIR Sensor
48mA with a DC Microwave Sensor
0-10V DIMMING: 12-24VDC
SIZE: 2.30in x 1.43in x 0.75in
(58.2mm x 36.4mm x 19mm)
MOUNTING: Removable mounting tabs
WEIGHT: 0.45 oz (16g)
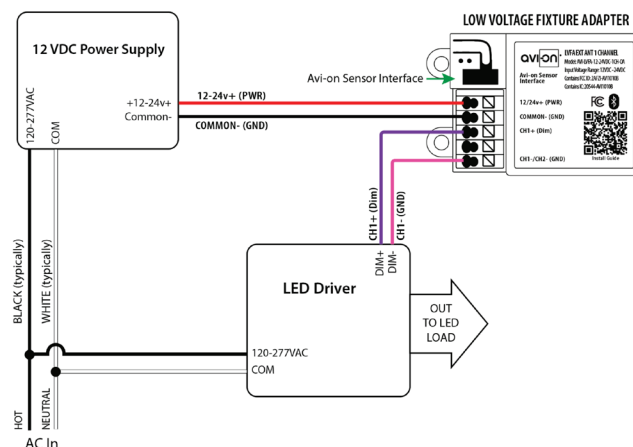**OPERATING TEMP:** -22°F to +158°F (-30°C to + 70°C)

RADIO FREQUENCY: 2.4GHz
WIRELESS STANDARD: BLE 4.2 with Mesh
POINT TO POINT RANGE*: 80ft with obstructions
350ft unobstructed
SECURITY: AES 128-bit encryption for device to device communication
AES 256-bit encryption for device to cloud communication
WARRANTY: 5 years; 10 years optional
REGULATORY: FCC: 2AFZI-AVI1010 B
IC: 20544-AVI1010 B
BQB: D031801, DID: 86303
UL 916, 2043 (Plenum Rated)

*When communicating through the mesh, range is essentially unlimited (5000ft+)

WIRING DIAGRAM

Fixture adapter powered by LED driver auxiliary output

Fixture adapter connected to LED driver and using power supply

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ALS CONTROL

CONTROL-BLE-620 BLUETOOTH CONTROLLER
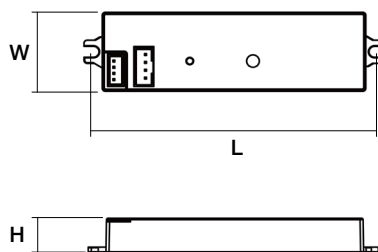
Client:
Project:
Type:
Quantity:

FEATURE

- **Installation:** Factory installed, 12V AUX power required
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** Dimming, High-End Trim, Zoning, Continuous Bi-level Dimming
- **CCT Tuning:** CCT Tuning feature for Dual/Multi-CCT LED board fixture only
- **Sensor:** Plug-N-Play with ALS Control sensors
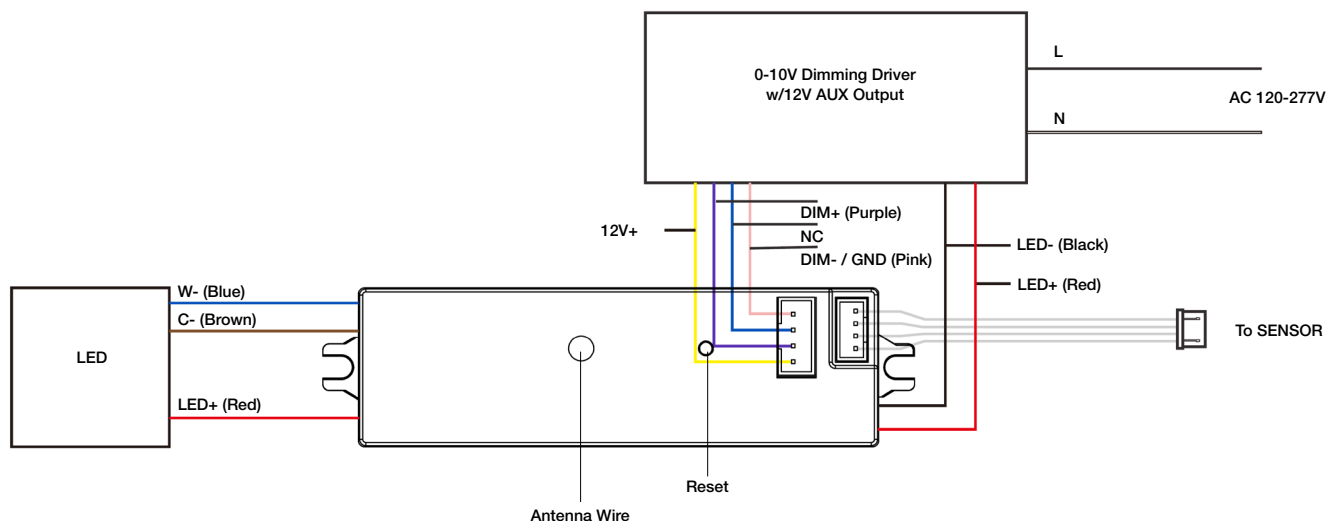- **Zone Control:** Zoning and Grouping control, Scheduling

SPECIFICATIONS

WIRELESS STANDARDS:	5.0 Bluetooth Mesh
INPUT VOLTAGE:	12-14VDC, >50mA
OUTPUT VOLTAGE:	LED Max. 150VDC Max. 2A
CONTROL OUTPUT:	0-10V
OPERATING TEMP:	-40°F ~ +158°F (-40°C ~ +70°C)
COMMISSIONING RANGE:	50FT
BLUETOOTH RANGE:	100FT
WARRANTY:	5 years
IP RATING:	IP20

DIMENSIONS

L	H	W
3.5" (89mm)	0.43" (11mm)	1.00" (26mm)

Lead Wire	Antenna Wire
10.60" (270mm)	10.60" (270mm)

WIRING DIAGRAM

0-10V Dimming Driver w/12V AUX Output

L
N
AC 120-277V

12V+
DIM+ (Purple)
NC
DIM- / GND (Pink)

LED- (Black)
LED+ (Red)

To SENSOR

LED

W- (Blue)
C- (Brown)
LED+ (Red)

Antenna Wire

Reset

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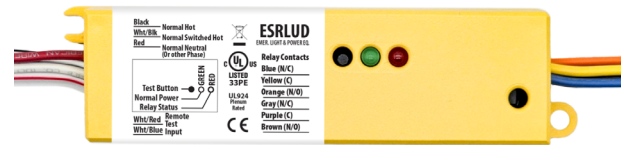Specifications are subject to change without notice
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GTD-ESRLUD Generator Transfer Device

CONSTRUCTION

Yellow metal casing. Integrates with dry contact systems to provide lighting during power outages. Features a slim enclosure, allowing for seamlessly integrating into existing building infrastructure.

Designed for commercial and industrial applications that require an emergency load to be switched on during a loss of normal power.

SPECIFICATIONS

COIL CURRENT:	Normal Power = 6mA MAX
COIL VOLTAGE INPUT:	120-277V AC (50/60 Hz)
EXPECTED RELAY LIFE:	10 Million Cycles Min Mechanical
RELAY CONTACT RATINGS:	10 Amp Resistive @ 30 V DC
	10 Amp General Use @ 277 V AC
OPERATING TEMP:	-30°F ~ +140°F (-34°C ~ +60°C)
OPERATE TIME:	18ms
HUMIDITY RANGE:	5-95% (Noncondensing)
LED:	Green = Normal Power
	Red = Relay Status
DIMENSIONS:	1.40"H x 5.63"W x 1.00"D
WIRES:	16", 600V Rated
OVERRIDE (TEST SWITCH):	No
APPROVALS:	UL924, C-UL, CE, ROHS
NOTES:	Device Draws no Current From Emergency Source

TESTING

INITIAL TEST FOR CORRECT WIRING:
Apply Normal Power To Normal Power Input
a. Green LED (Normal Power) should be ON
b. Red LED (Relay Status) should be ON
c. Load should be OFF
d. Relay Contact (N/O) should be CLOSED

LOCAL TEST BUTTON:
1. Turn Switched Circuit OFF. Load be OFF.
2. Press and Hold "Local Test Button"
3. Load should Turn ON
4. Release "Local Test Button" and Emergency Light should Turn OFF.

WALL SWITCH:
1. Turn ON Wall Switch If not already ON
2. Load should Turn ON
3. Turn Wall Switch OFF
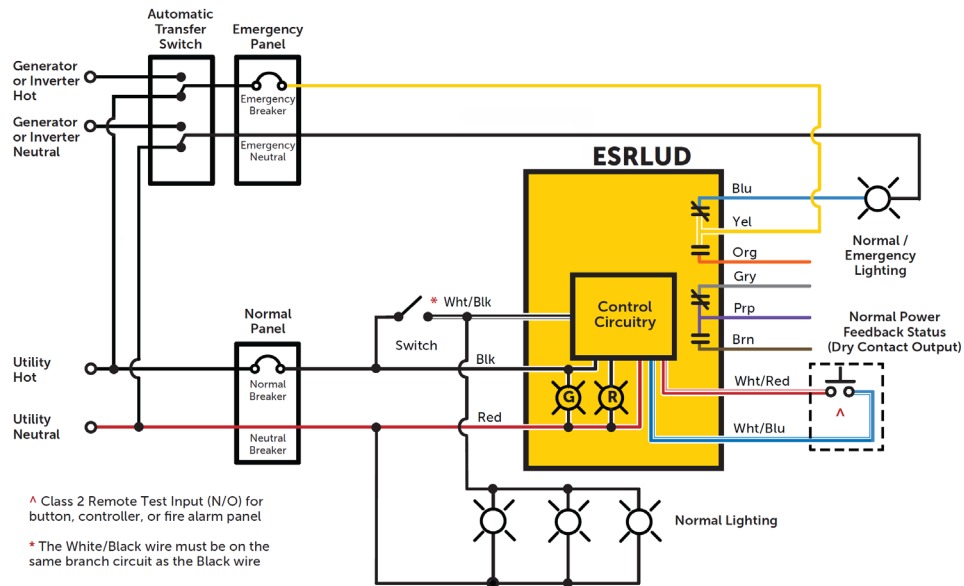4. Load will Turn OFF

TROUBLESHOOTING

CONDITION	ACTION
Green LED is OFF	• Check Normal Power Input Wiring (Black and Red Wires) and Voltage.
Red LED is OFF but Load is OFF	• Check Bulbs and Ballast. • Check Load Wiring (Blue Wire and Load's Neutral). • Replace Unit. (Assuming N/C Contact is Used).
Load is ON but Red LED is ON	• Replace Unit. (Assuming N/C Contact is Used).
Red LED does not Turn OFF and Load does not Turn ON when being tested	• Check Bulbs and Ballast. • Check Wiring Connections if Using a Remote Test Option. • Press Local Test Button on the Unit. • Replace Unit.
Red LED will not Turn ON and Load will not Turn OFF	• Verify Status of Normal Power Input. • Open Wall Switch Input. • Verify That No Test Inputs are Stuck Closed.

WIRING DIAGRAM

USING EMERGENCY LIGHTING AS NORMAL LIGHTING

Automatic Transfer Switch
Emergency Panel
Generator or Inverter Hot
Generator or Inverter Neutral
Emergency Breaker
Emergency Neutral

ESRLUD
Control Circuitry
Blu
Yel
Org
Gry
Prp
Brn
Wht/Red
Wht/Blu

Normal / Emergency Lighting
Normal Power Feedback Status (Dry Contact Output)

Normal Panel
Normal Breaker
Neutral Breaker
Utility Hot
Utility Neutral
* Wht/Blk
Switch
Blk
Red
G   R

Normal Lighting

^ Class 2 Remote Test Input (N/O) for button, controller, or fire alarm panel

* The White/Black wire must be on the same branch circuit as the Black wire

OVERRIDING A 0-10V DIMMER

Automatic Transfer Switch
Emergency Panel
Generator or Inverter Hot
Generator or Inverter Neutral
Breaker
Neutral

0-10V Dimmer Control
H
N
+
−

Normal Emergency Lighting

ESRLUD
Control Circuitry
Blu
Yel
Org
Gry
Prp
Brn
Wht/Red
Wht/Blu

Normal Panel
Breaker
Neutral
Utility Hot
Utility Neutral
Wht/Blk
Blk
Red
G   R

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