eldoLED

Technical Specifications
FieldSET® Field-Programmable Indoor LED Driver
OTi25W



J-Housing

The FieldSET OTi25W is an efficient, dimmable, compact LED driver for indoor applications.This programmable driver is compatible with the FieldSET LED Driver Programming Tool which provides visual and audible feedback programming. The FieldSET OTi25W is designed for in-field programming and replacement.

Driver Overview

- Intended for use in LED fixtures including Indoor, Downlight fixtures.
- 25W Output
- 0-10V Dimming with 1% Minimum Dim Level

General Information

Driver Description	25W 120-277V; 0-10V, 1% min dim
Type	Constant Current
Output Power	25W (Max.)
Programming Tool	FieldSET LED Driver Programmer
Field Programmable Features	Output Current Dimming Level Dim-to-Off

Environmental Specifications

Ambient Operating Temperature	-30ºC to 50ºC
Max. Case Temperature (Tc)	90ºC 80ºC (50kHrs)[1]
Max. Storage Temp.	75ºC
Max. Relative Humidity (%)	95% non-condensing
Transient Protection	NEMA SSL 1-2010[2] Non-Roadway 2.5kV
UL Environmental Rating	Dry and Damp
UL File number	E320395
IP Rating	IP20
EMI Compliance	FCC Part 15 Class A
Sound Rating	Class A

[1] 5 year warranty applicable at 85ºC
[2] Complies to NEMA 410 inrush current requirements

Electrical Specifications

Input

Input Voltage (VAC)	120V-277V (+/-10%)	
Frequency Range (Hz)	50-60 Hz (+/-) 10%)	
	120V	**277V**
Input Current (A)	0.28A	0.12A
THD @ Full load	<20%	<20%
Power Factor @ Full load	>0.9%	>0.9%
Efficiency @ Full load	≥87%	≥86%
Inrush Current (Apk)[2]	6.5A, 115µs	14.9A, 125µs
Line Regulation	<5%	<5%

Output

Output Current (mA)	150-1250mA (1mA step) 500mA default
Output Voltage (VDC)	8-55VDC
Output Ripple Current	<20% @1250mA
Max. Output Power (W)	25W
LED Power-Up Time	<0.5 sec CA T-24 Compliant
Load Regulation	<3%
Line Regulation	<3%
Over Voltage Protection	Yes, non-latching
Over Load Protection	Yes, non-latching
Output Short-Circuit Protection	Yes, non-latching
Over Temperature Protection	Yes, Foldback to 50% at 100ºC

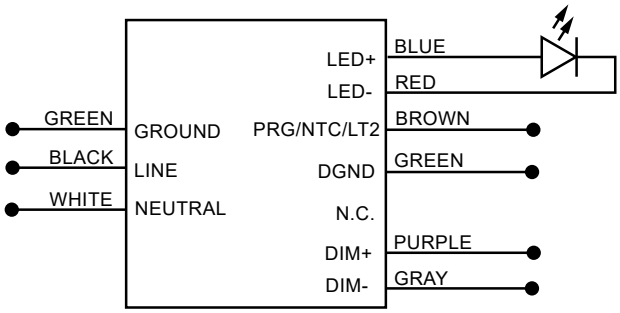
Dimming

Dimming Control	0 – 10V (Isolated)[1]
Dimming Range	1-100%[2]
Dimming Type	Current Reduction
Dimming Input Isolation	2.5kV
Source/Sink Current	0.2mA (Max.)
Dim-to-Off OFF/ON	0.7mA/1V
Dim-to-Off Standby Power	<1W
Dimming Interface Protection	Yes, 120-277Vac

CAUTION: More than one power supply present; Compliant with ANSI C137.1
[1] Class 2 or non-Class 2 wiring allowed
[2] Driver can be dimmed to TRUE 1% level (1.5mA) of the programmed output current of the driver. Programmable with 1mA resolution with +/- 3% accuracy.

 © 2023-2024 Acuity Brands Lighting, Inc. All rights reserved.

Wiring Diagram



NOTES:

Maximum remote mounting distance is 16 feet.

Wire extration tool is needed to extract the wires from the connectors.

Use solid copper wire only: 16-20 AWG.

Use DGND as AUX return path.

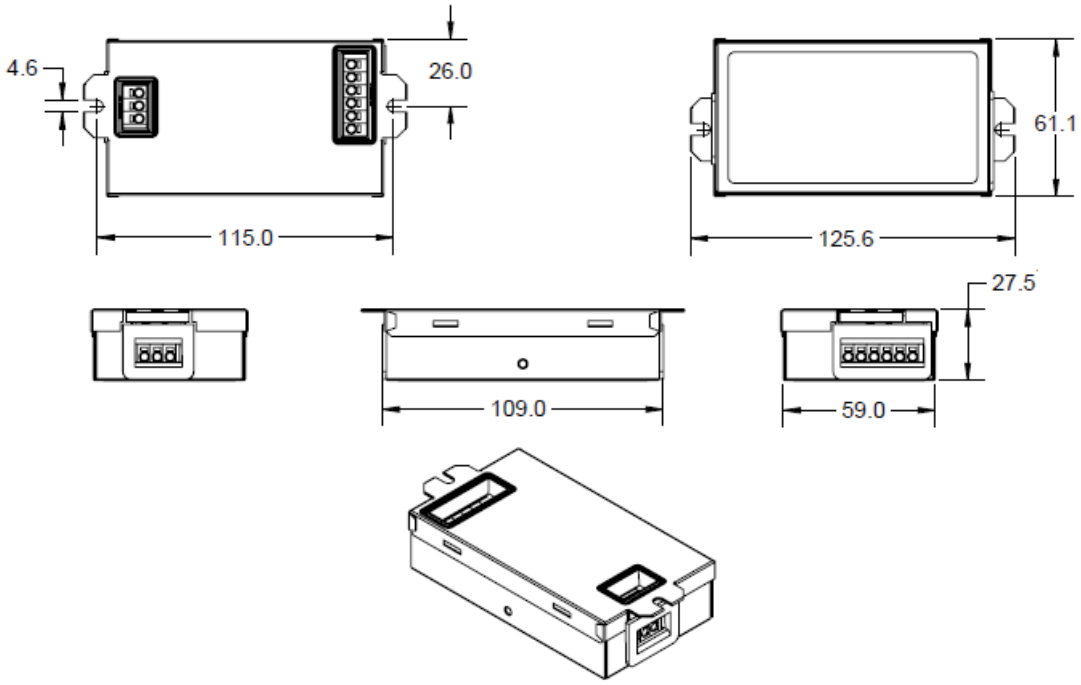
Output ports for LED load, Vaux, and DIM can use 16 to 22 AWG.

For more detained information and requirements, consult the light engine information and/or information about light engine connectors.

Key Application Notes:

Dim-to-off is a programmable (enable/disable) feature. The default mode is disabled for out-of-the-box products. If required, it must be enabled using the programmer tool.

Mechanical Diagram

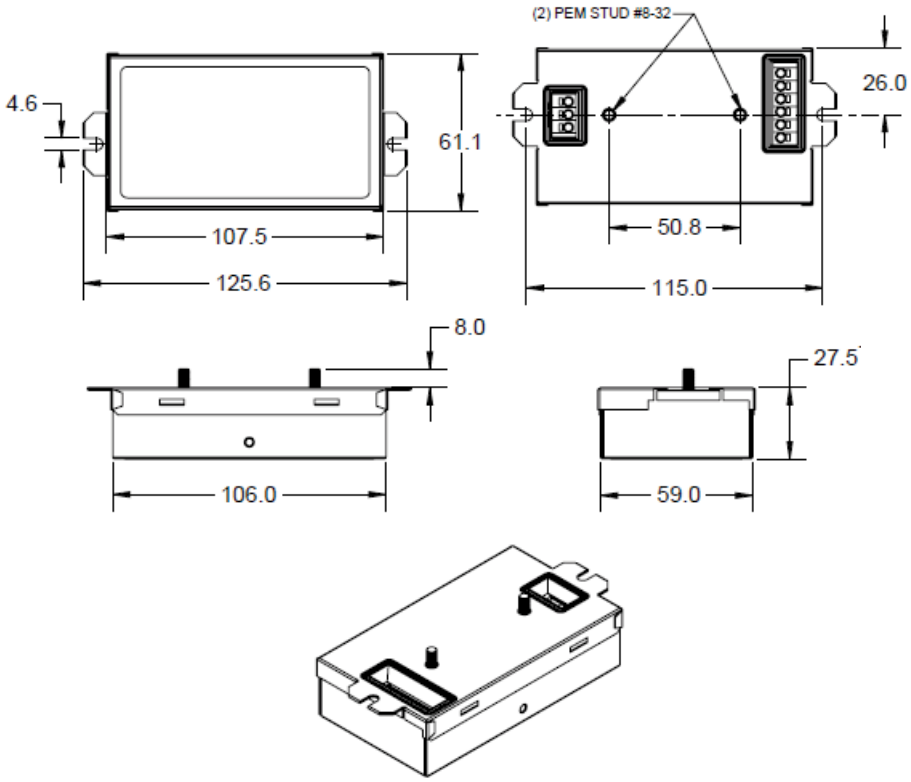


Housing F Style

Length	4.3" (109mm)
Width	2.4" (61.1mm)
Height	1.2" (27.5mm)
Mounting Length	4.5" (115mm)

 © 2023-2024 Acuity Brands Lighting, Inc. All rights reserved.

Mechanical Diagram



Housing J Style

Length	4.2" (106mm)
Width	2.4" (61.1mm)
Height	1.2" (27.5mm)
Mounting Length (outside)	4.5" (115.0mm)
Mounting Length (inside)	2.0" (50.8mm)

Inrush Characteristic

Vin (V)	Ipeak (A)	T(@ 10% of Ipeak)
120	6.5	115µs
277	14.9	125µs

Complies to NEMA 410 inrush current requirements.

 © 2023-2024 Acuity Brands Lighting, Inc. All rights reserved.

Ordering Information

Series	Driver Type	Wattage	Input Voltage	Output Current	Control	Min Dim Level	Specialized Mounting*	Programmer
FieldSET	OTi	25W	UNV	1A2	1DIM	DIM-1	J-HOUSING	FS

Understanding Your Driver Model			
FieldSET	Field Service Solution	**1DIM**	0-10V Dimming
OTi	OTI Intelligent Driver	**DIM-1**	Dims to 1%
25W	25W Output	**J-HOUSING***	J-Housing with PEM Studs
UNV	120-277VAC Input	**FS**	Programmed using FieldSET Programmer Tool
1A2	1250mA Output (150-1250mA output range)		

*Specialized Mounting optional. Leave blank for standard integral mounting.

Product Description	UPC
FIELDSET OTI 25W UNV 1A2 1DIM FS	197589480009
FIELDSET OTI 25W UNV 1A2 1DIM J-HOUSING FS	197589480023
FIELDSET OTi 25W UNV 1A2 1DIM DIM-1 FS J20	196183325228
FIELDSET OTi 25W UNV 1A2 1DIM DIM-1 J-HOUSING FS J20	196183325235

Warranty

FieldSET and OPTOTRONIC® by eldoLED Products are covered by a 5-year limited warranty.This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms can be found at: www.eldoled.com/legal/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
Specifications subject to change without notice.

 © 2023-2024 Acuity Brands Lighting, Inc. All rights reserved.