



The FieldSET OTI30W is an efficient, dimmable 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 OTI30W is designed for in-field programming and replacement.

#### Driver Overview

- Intended for use in LED fixtures, including 2x2, 2x4 troffers, linear, strip, and architectural fixtures.
- 30W Output
- 0-10V Dimming with 1% Minimum Dim Level

#### General Information

Driver Description	30W 120-277V; 0-10V, 1% min dim
Type	Constant Current, Class 2
Output Power	30W (Max.)
Programming Tool	FieldSET LED Driver Programmer
Field Programmable Features	Output Current Dimming Level Dim-to-off

#### Environmental Specifications

Ambient Operating Temperature	-30°C to 50°C
Max. Case Temperature (Tc)	85°C 75°C <sup>1</sup>
Max. Storage Temp.	70°C
Max. Relative Humidity (%)	85% non-condensing
Transient Protection	NEMA SSL 1-2010 <sup>2</sup> 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

<sup>1</sup> 5 year warranty applicable at 75°C

<sup>2</sup> Complies to NEMA 410 inrush current requirements

#### Electrical Specifications

##### Input

Input Voltage (VAC)	120V-277V (+/-10%)	
Frequency Range (Hz)	50-60 Hz (+/-) 10%	
	<b>120V</b>	<b>277V</b>
Input Current (A)	0.31A	0.15A
THD @ Full load	<10%	<20%
Power Factor @ Full load	>0.9%	>0.9%
Efficiency @ Full load	≥87%	≥86%
Inrush Current (Apk) <sup>2</sup>	0.86, 50µs	1.35, 60µs

##### Output

Output Current (mA)	150-1050mA (1mA step) 700mA default
Output Voltage (VDC)	10-55VDC
Output Ripple Current	<25% @1050mA
Max. Output Power (W)	30W
LED Power-Up Time	<1 sec
Load Regulation	<5%
Line Regulation	<5%
Over Voltage Protection	Yes, non-latching
Over Load Protection	Yes, non-latching
Output Short-Circuit Protection	Yes, non-latching
Over Temperature Protection	Yes, Foldback at 110°C

#### Dimming

Dimming Control	0-10V (Isolated)
Dimming Range	1-100%
Dimming Type	Analog
Dimming Input Isolation	2.5kV
Source/Sink Current	0.2mA (Max.)
Dim-to-Off OFF/ON Threshold	0.7V/1V
Stand-by Power (max)	1.4W(120V); 1.7W(277V)
Dimming Interface Protection <sup>1</sup>	Yes, 120-277Vac

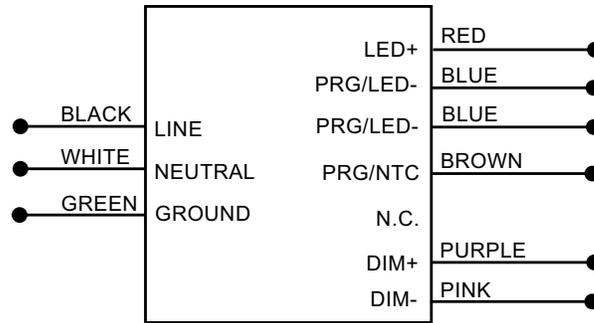
**CAUTION:** More than one power supply present; Compliant with ANSI C137.1

<sup>1</sup> Driver will foldback to 30% of programming output level in AC line voltage is connected across DIM+/- terminals.



# FieldSET OTi30W - Technical Specifications

## Wiring Diagram



### NOTES:

Maximum remote mounting distance is 16 feet.

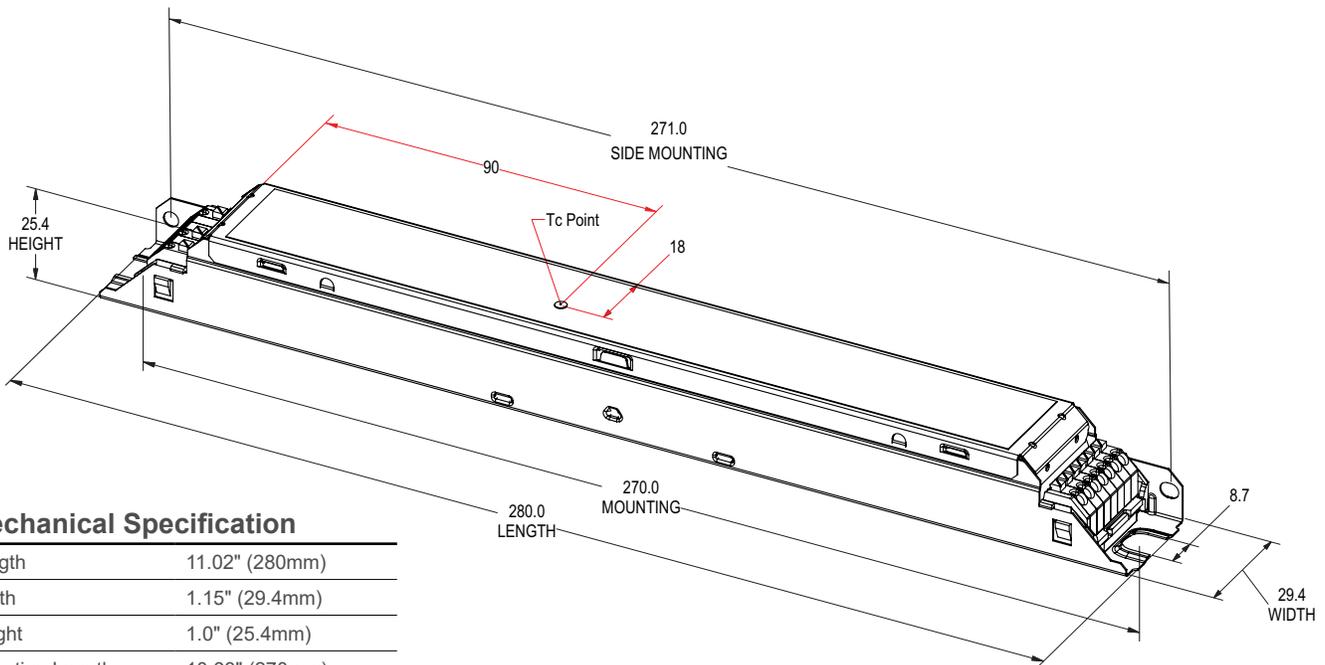
Use solid copper wire only: 16-20 AWG.

For LED load and DIM wire, 16-22 AWG is acceptable. For more detailed information and requirements, consult the light engine information and/or information pertaining to the light engine connectors.

### Key Application Notes:

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

## Mechanical Diagram



### Mechanical Specification

Length	11.02" (280mm)
Width	1.15" (29.4mm)
Height	1.0" (25.4mm)
Mounting Length	10.63" (270mm)
Mounting Side	10.67 (271.0mm)

**NOTE:** Contact Technical Services for additional performance data and graphs.

### Inrush Characteristic

Vin (V)	Ipeak (A)	T(@ 10% of Ipeak)
120	0.86	50µs
277	1.35	60µs

Complies to NEMA 410 inrush current requirements.

## Ordering Information

Series	Driver Type	Wattage	Input Voltage	Output Current	Control	Min Dim Level	Programmer
FieldSET	OTi	30W	UNV	1A0	1DIM	DIM-1	FS

Understanding Your Driver Model			
<b>FieldSET</b>	Field Service Solution	<b>1A0</b>	1050mA Output Max (150-1050mA output range)
<b>OTi</b>	OTi Intelligent Driver	<b>1DIM</b>	0-10V Dimming
<b>30W</b>	30W Output	<b>DIM-1</b>	Dims to 1%
<b>UNV</b>	120-277VAC Input	<b>FS</b>	Programmed using FieldSET Programmer Tool

Product Description	UPC
FIELDSET OTI 30W UNV 1A0 1DIM DIM-1 FS	197589479997
FIELDSET OTI 30W UNV 1A0 1DIM DIM-1 FS J10	196183325174

## 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](http://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.