

LD-0181 OLED Driver – 7 Watt

Product Overview:

The LD-0181 is a 7W universal input OLED driver with 0-10V dimming (down to 4%), specifically designed for compact fixture enclosures and providing long service life. It can drive an OLED load of 15-26 VDC at 260mA. It has a unique OLED short circuit protection feature that will automatically reduce output current to under 10mA if OLED forward voltage falls below 13V.



Features:

- 90-305VAC, 50/60Hz Universal Input
- Output 15-26VDC @ 260mA
- 0-10V dimming per IEC 60929 (dimming performance down to 4% without shut-off or flicker) (see Note 2)
- Ingress Protection to IP67
- High ambient operating temperature - Active temperature compensation (foldback) when temperature threshold is exceeded (see Note 3)
- Complies with emissions requirements of EN 55022; FCC Part 15
- Complies with UL/CSA Product Safety requirements (UL8750 and UL1310 Class 2)
- AC line or DC load switching without overshoot
- OLED short circuit protection if OLED Vf falls under 13V
- 18AWG Wire Leads, color coded, for AC, LED and DIM connections
- 5 Year Warranty

Part Number:

LD0181-260-03 (260mA max. OLED current)

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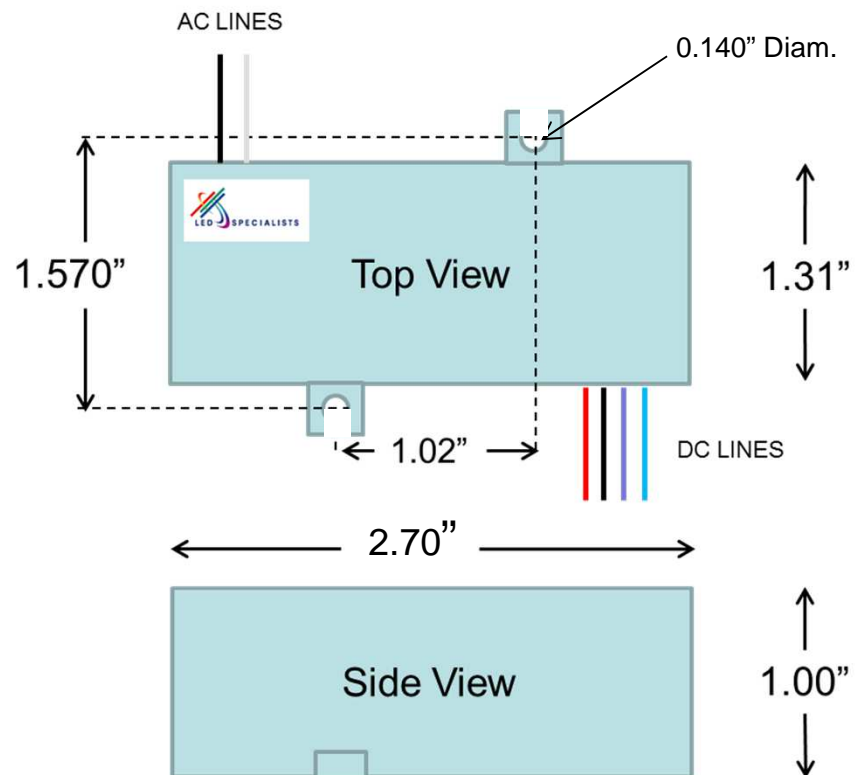
Specifications:

Electrical	
Input Voltage:	90-305 VAC (50/60Hz)
Power:	7W (Max)
LED Load Voltage:	15-26VDC (260mA)
Efficiency:	~ 73%
0-10VDC Dimming:	Per IEC 60929 Annex E, down to 4%
Isolation:	3000VAC, Class 2
Short Circuit Protection:	Continuous

Environmental	
Operating Temperature:	-40 to +75C
Storage Temperature:	-40 to +105C
Ingress Protection:	IP67
Mechanical	
Size (w/o flange):	2.70"L x 1.31"W x 1.00"H
Leads:	11", 18AWG
Safety and Regulatory:	
Safety:	UL8750 Class 2/CAN/CSA C22.1 (1), UL1310
EMI Emissions:	EN 55022, Class B; FCC Part 15 for 120VAC and 277VAC
Surge Protection:	IEC 61000-4-5 Level 3

Wire Color Code	
AC Input:	Line (BLK), Neutral (WHT)
OLED Output:	OLED+ (RED), OLED- (BLK)
Dimming:	DIM+ (PUR), DIM- (GRY)

Dimensions:



(drawing not to scale)

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Notes:

Note 1: OLED output wires and DIM leads isolated (Class 2)

Note 2: Provides continuous, smooth, flicker free dimming from 100% to 4%. OLED current dimming linearly dimmed.

The OLED driver is a current “source”, controlled by an external dimmer that is a current “sink”, per IEC 60929 Annex E.

At 1 Volt Dim input, the driver reduces the OLED current to 4% of maximum (e.g. for 260mA version, LED current ~10mA at 4% DIM). Below 1 Volt Dim input, the driver continues to output minimum OLED current and does not turn-off output.

Note 3: OLED Driver operates in ambient temperature environment in accordance with derating curve shown below. When maximum specification ambient temperature is exceeded (75C), OLED Driver uses “thermal foldback” to reduce OLED drive current to reduce heat load.

