Thomas Research Products

SD3-120 Step-Dimming Series

Tri-Level dimming control modules,
For use with 0-10V dimmable LED Drivers

Rev 8-8-2017

Intelligent Device ECOSYSTEM dynamic

c UL us E359020 RoHS COMPLIANT IP66

Electrical Specifications

Input Voltage Range:	120 Vac Nom. (100-132 V Min/Max)
Frequency:	50/60 Hz Nom. (47-63 Hz Min/Max)
Max Pass Current:	1.0A @ 120Vac Input
Max LED Driver Power:	100W
Max Insertion Loss:	<1.5W @ 100W LED Driver
Class 2 Control Output:	0-10V (Current Sinking only, 50mA max)
Warranty:	5 years

Environmental Specifications

Storage Temperature:	-40ºC to +85ºC
Max Case Temp:	75°C
Min Operating Temp:	-40ºC
Humidity:	5% to 95%
Lifetime:	1,000,000 Switching Cycles

The SD3-120 works with two standard wall switches to provide quick switching between 3 levels of light output from LED luminaires.

- Two models: for 25-50-100 or 33-66-100 light output
- Works with 0-10V dimmable LED drivers
- Eliminates need for expensive dimmer unit
- Works with occupancy sensors
- Class 2 Output

Two models:

- **SD3-25-120** provides 25-50-100% light output
- **SD3-33-120** provides 33-66-100% light output

Input Line Voltage		Driver Output Current	
Black/Red	Black/White	**SD3-25-120**	**SD3-33-120**
On	On	100%	100%
On	Off	<50%	<66%
Off	On	<25%	<33%
Off	Off	0%	0%

Contact TRP for custom output variants!

NOTES:

1. *Compatibility with 0-10V dimmable drivers manufactured by companies other than Thomas Research Products cannot be assured. Please contact your sales representative for a list of compatible drivers.*
2. *This device is designed to operate with standard wallbox switches only.*
3. *UL requires that these modules be installed within the luminaire enclosure.*

Thomas Research Products • 1225 Bowes Rd • Elgin, IL 60123 • T 847-515-3057 • F 847-515-3047 • www.trpssl.com

HUBBELL

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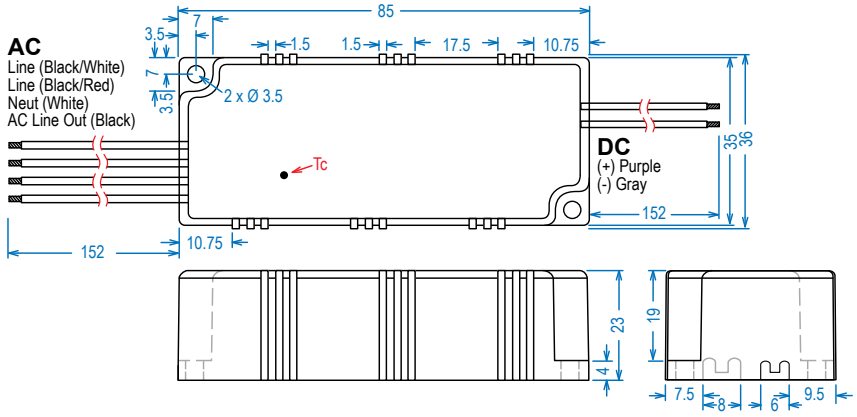
Dimensions



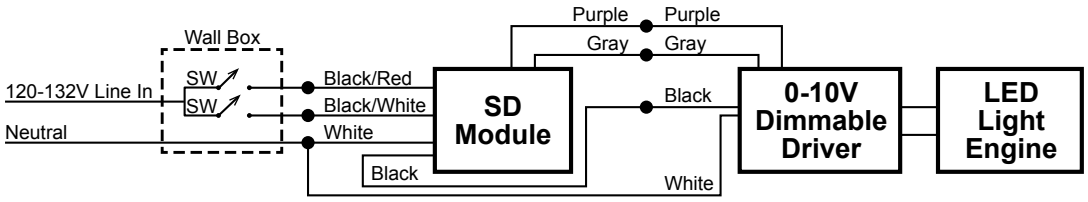
Wiring Diagrams

Standard Wiring:

Note:

Lead placement on wiring diagram is optimized for clarity, and not intended to reflect actual lead exit locations on SD case.

Wall switches S1 & S2 should be located next to each other to allow for Full ON / Low ON / OFF control.

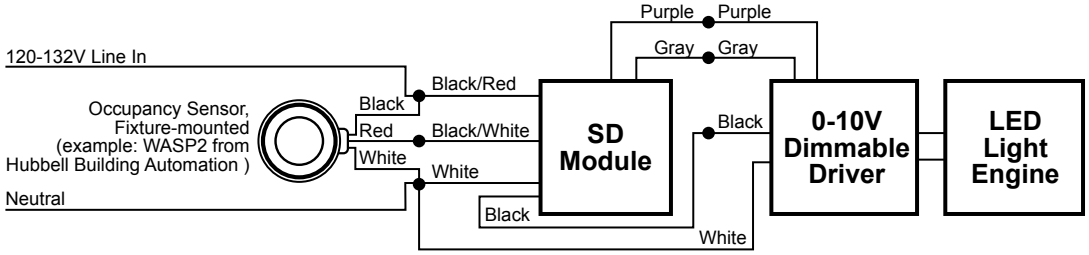


Wiring with Occupancy Sensor:

Example 1:

Driver output is 100% when space is occupied, 50% with no occupancy (SD3-25)

Driver output is 100% when space is occupied, 66% with no occupancy (SD3-33)

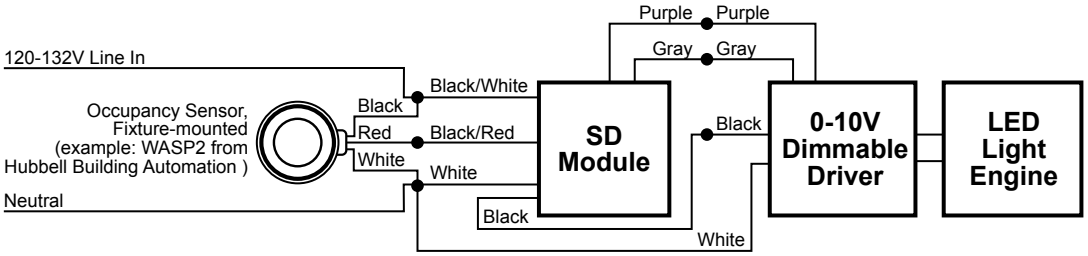


Wiring with Occupancy Sensor:

Example 2:

Driver output is 100% when space is occupied, 25% with no occupancy (SD3-25)

Driver output is 100% when space is occupied, 33% with no occupancy (SD3-33)



Note:

Incoming power from branch must be on same phase. Do not use with multiple phases.

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