

T&J ELECTRIC (SINGAPORE) PTE LTD

Company Registration No: 200205797Z
10 Ubi Crescent, #02-24, Ubi Techpark, Singapore 408564
Telephone: +65 6547-4333 Fax: +65 6547-4666

Date: July 2nd, 2020

Subject: Product Info: W2847 (1-10V DC Dimmer)

Features:

- W2847 is used to control a dimmable electronic ballast/driver to implement a dimming function on fluorescent lamp, PLC lamp and LED light.
- The dimmable electronic ballast/driver should have isolated output and can accept a control voltage from 1V DC to 10V DC.
- W2847 can be configured as 1-way or 2-way switching.



Press ON/OFF, turn to dim

W2847 (Front View)

Technical Data:

- Input Switch rating:
200~250VAC, 50/60Hz 6A
(Resistive)
- Dimming terminals:
Control Voltage: 1-10V DC
Rated Current: 40-50mA DC
- Deco 2-gang module size
(43.2 x 46 mm)
- Mounting Box: >47 mm depth



Trimmer - adjust minimum brightness

W2847 (Back View)

T&J ELECTRIC (SINGAPORE) PTE LTD

Company Registration No: 200205797Z
10 Ubi Crescent, #02-24, Ubi Techpark, Singapore 408564
Telephone: +65 6547-4333 Fax: +65 6547-4666

Date: July 2nd, 2020

Subject: **Product Info: W2847 (1-10V DC Dimmer)**

Wiring Diagram for Fluorescent dimmable ballast:



L - AC input "LIVE"
L1 - connect to Driver/Ballast
L2 - 2-Way Switching option
"+" -> dim "+" terminal of Ballast/Driver
"- " -> dim "-" terminal of Ballast/Driver

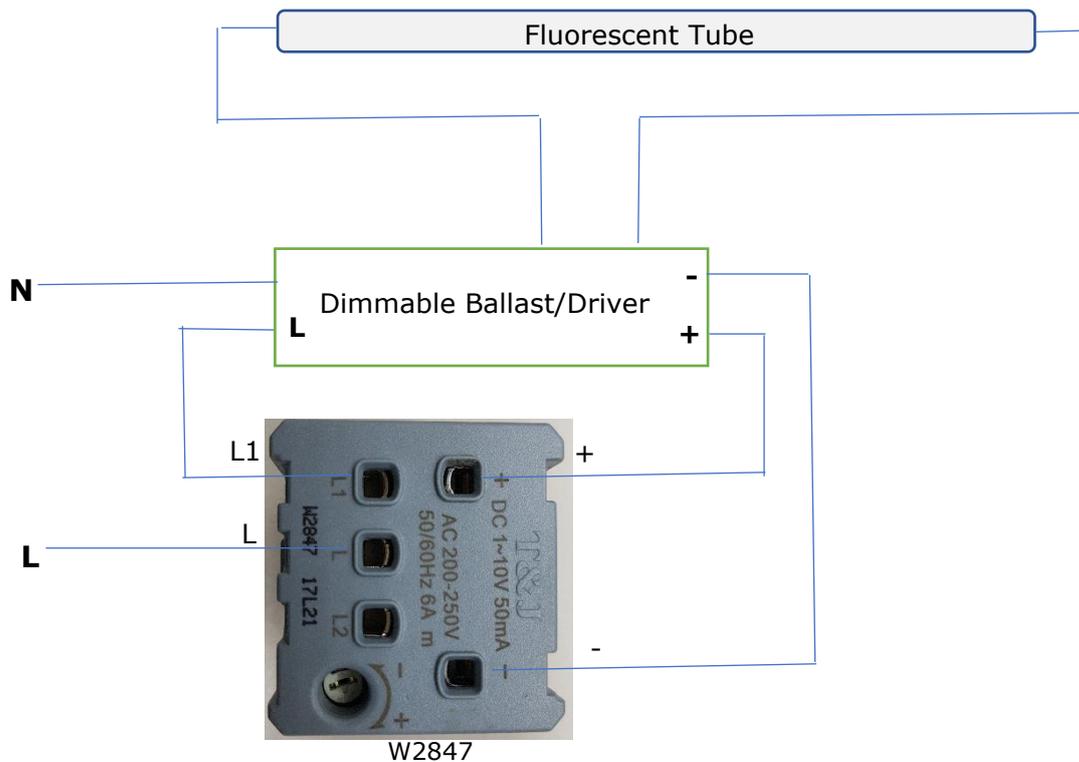


Fig. 1: One-way ON/OFF connection

T&J ELECTRIC (SINGAPORE) PTE LTD

Company Registration No: 200205797Z
10 Ubi Crescent, #02-24, Ubi Techpark, Singapore 408564
Telephone: +65 6547-4333 Fax: +65 6547-4666

Date: July 2nd, 2020

Subject: **Product Info: W2847 (1-10V DC Dimmer)**

Wiring Diagram for Fluorescent dimmable ballast:

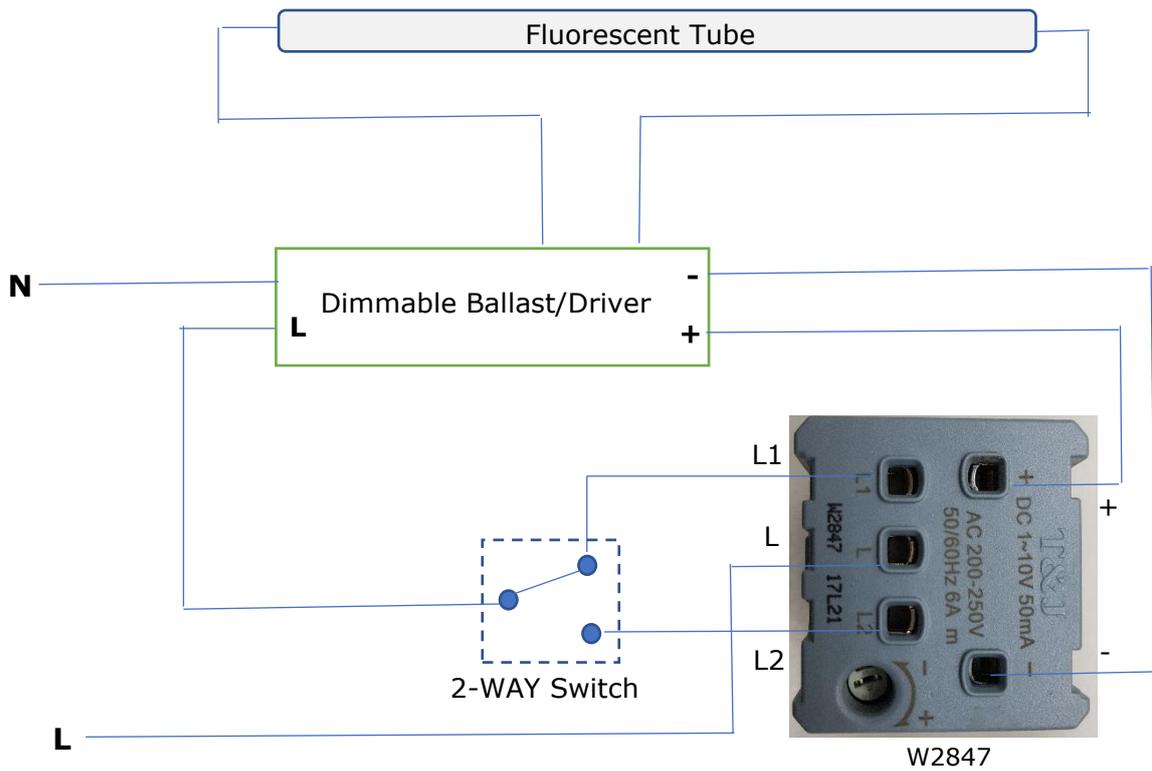


Fig. 2: Two-way ON/OFF connection

T&J ELECTRIC (SINGAPORE) PTE LTD

Company Registration No: 200205797Z
10 Ubi Crescent, #02-24, Ubi Techpark, Singapore 408564
Telephone: +65 6547-4333 Fax: +65 6547-4666

Date: July 2nd, 2020

Subject: **Product Info: W2847 (1-10V DC Dimmer)**

Wiring diagram for Dimmable LED Driver:

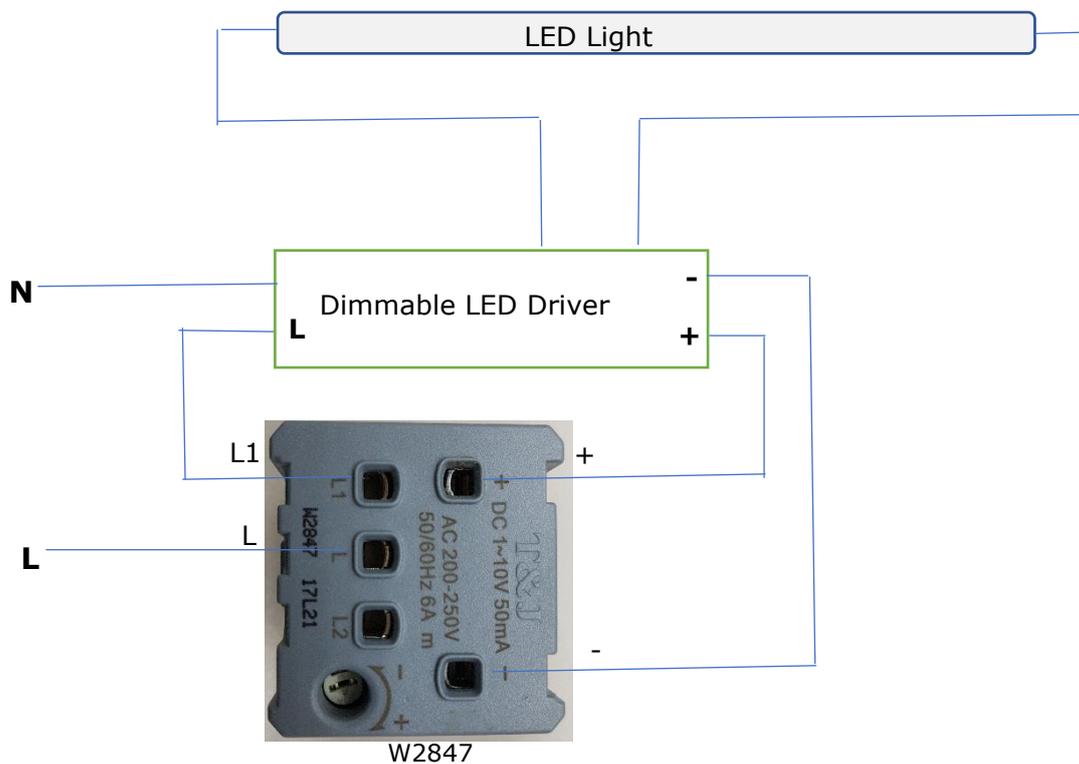


Fig. 3: One-way ON/OFF connection

T&J ELECTRIC (SINGAPORE) PTE LTD

Company Registration No: 200205797Z
10 Ubi Crescent, #02-24, Ubi Techpark, Singapore 408564
Telephone: +65 6547-4333 Fax: +65 6547-4666

Date: July 2nd, 2020

Subject: **Product Info: W2847 (1-10V DC Dimmer)**

Wiring diagram for Dimmable LED Driver:

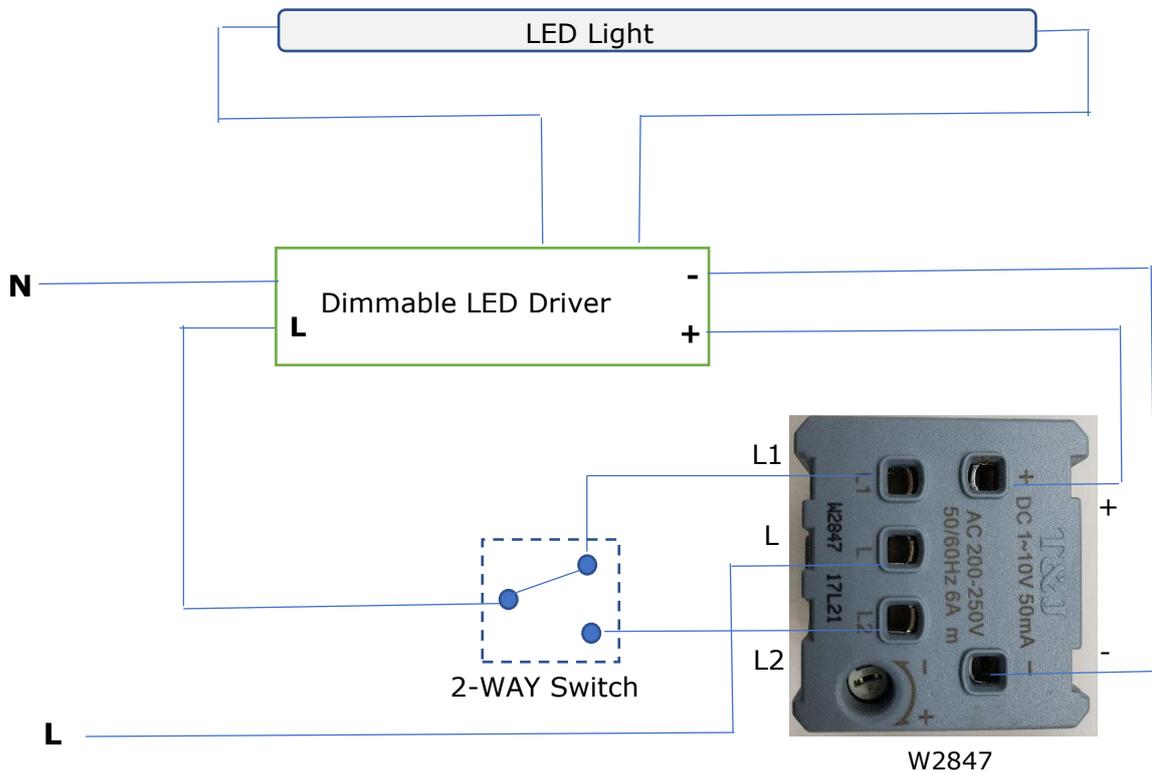


Fig. 4: Two-way ON/OFF connection

T&J ELECTRIC (SINGAPORE) PTE LTD

Company Registration No: 200205797Z
10 Ubi Crescent, #02-24, Ubi Techpark, Singapore 408564
Telephone: +65 6547-4333 Fax: +65 6547-4666

Date: July 2nd, 2020

Subject: **Product Info: W2847 (1-10V DC Dimmer)**

Wiring diagram for External ON/OFF switch connection:

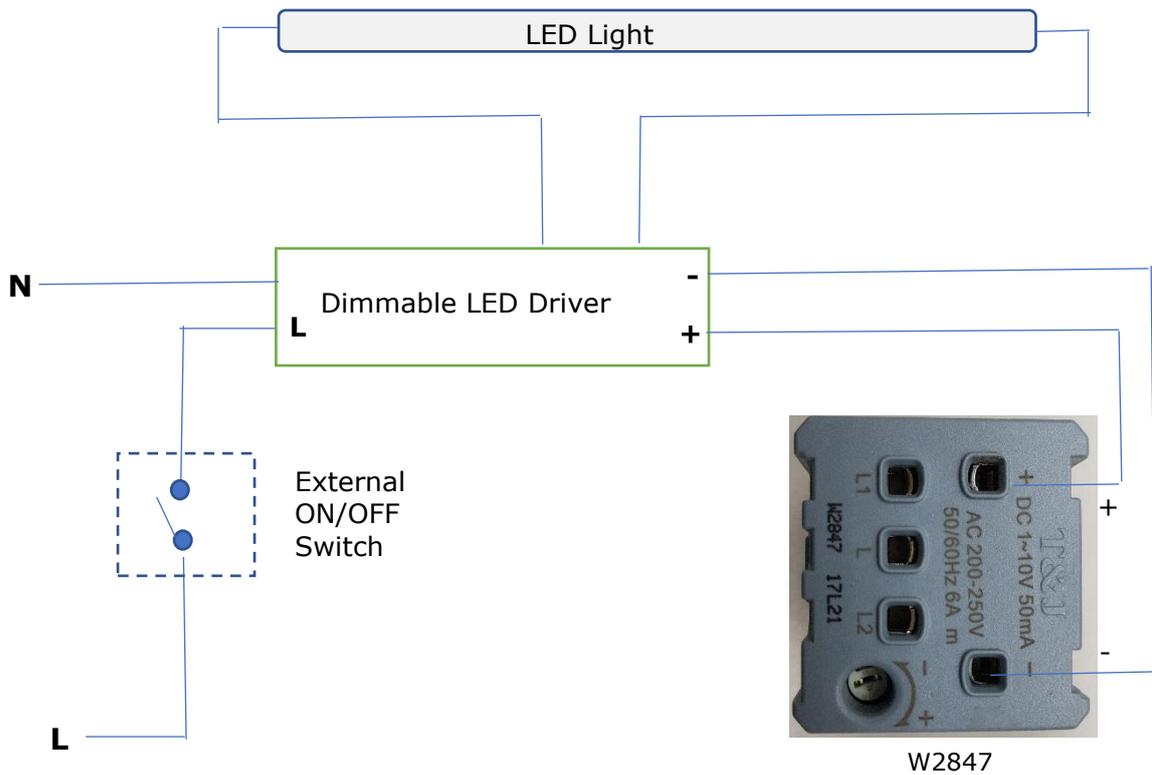


Fig. 5: Using External ON/OFF Toggle Switch

T&J ELECTRIC (SINGAPORE) PTE LTD

Company Registration No: 200205797Z
10 Ubi Crescent, #02-24, Ubi Techpark, Singapore 408564
Telephone: +65 6547-4333 Fax: +65 6547-4666

Date: July 2nd, 2020

Subject: Product Info: W2847 (1-10V DC Dimmer)

Note on Application:

- Ensure the proper connection on the "+" and "-" terminal, observe polarity.
- To achieve best minimum lighting level, adjust trimmer at back of dimmer module.
- It needs a dimmable electronic ballast/driver and cannot connect directly to the fluorescent lamp or LED light.
- The low voltage dimming circuit (+ & - terminal) is protected with a resettable PTC fuse.
- The Push ON/OFF switch is rated at 6 Ampere resistive load, de-rating required for high surge electronic driver loads. For higher AC load current an external switch can be installed (see Fig 5).
- This dimming module can support two-way switching but not two-way dimming.
- The W2847 dimmer supports dimming ballast standard, that is, current sink control (see Fig. 6 below) and is not compatible with LED driver that requires current source control.

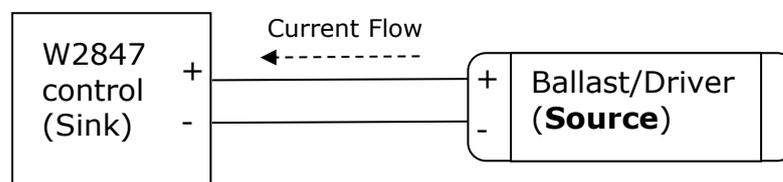


Fig. 6 "**Source**" – control DC voltage supply provided by Driver side

T&J ELECTRIC (SINGAPORE) PTE LTD

Company Registration No: 200205797Z
10 Ubi Crescent, #02-24, Ubi Techpark, Singapore 408564
Telephone: +65 6547-4333 Fax: +65 6547-4666

Date: July 2nd, 2020

Subject: Product Info: W2847 (1-10V DC Dimmer)

Compatible product range

W2847 is compatible with following adaptor plate/frame:

Radiance range:	K1201-xx	Mounting adaptor for Deco module (2-module size)	
Titanium range:	GC1221-xx	Mounting adaptor for Deco module (2-module size)	
Harmony range:	EA1232-xx (EA4211M2)	2-gang adaptor plate for Deco module	
Minimalist range:	EB1101-xx (EB4211M2)	2-gang adaptor plate for Deco module	
infinit range:	HC1232-xx (HC4211M2)	2-gang adaptor plate for Deco module	

Note:

1. Adaptor plate for other ranges are available, please contact T&J Sales representative.
2. xx - specify color code