

IMPORTANT: IN THE INTEREST OF PRODUCT PERFORMANCE AND SAFETY PLEASE READ THESE INSTALLATION AND WARRANTY INSTRUCTIONS BEFORE INSTALLING THE PRODUCT.



SAL products are designed in accordance with all mandatory International and Australian Standards, which require installation by a qualified installer and regular cleaning and maintenance of the equipment. Products are sold in accordance with the following instructions and SAL standard terms and conditions of sale, available via www.sal.net.au.

SDA450U UNIVERSAL ROTARY DIMMER product electrical and installation specification effective 31/08/2018.

Model #	Input	Min / Max loads	Colour	Dimension L x W x H	Dimming Technique
SDA450U	240V _{AC}	5W*/300W	WHITE	53 x 23 x 23 mm	Trailing & Leading edge

* Dimming performance will be affected when the load is less than 5W.

Nominal frequency (Hz)	- 50	Product installation orientation	- Horizontal wall mount
Operating ambient min/max (°C)	- 0 to 40	Product application	- Interior residential
Operating humidity	- +10% to 85% RH, NC	Pixie connectivity	- No
Storage ambient limit (°C)	- 0 to 60	IP rating*	- 20
Storage humidity	- +10% to 85% RH, NC	Attachment type	- N/A

IP rating for interior products: The designated IP rating is "from below the ceiling" unless otherwise specified.
 IP rating ALL products: Termination of the product must be made in accordance with the IP rating.

Multi-gang de-rating

No. of dimmers	Max. Load per Dimmer
1	300W
2	250W
3	200W
4	150W

Load Compatibility

Compatible Loads	
LED fixture with trailing edge dimming driver	TE auto/TE
240V halogen lamp	TE auto/TE/LE
Incandescent lamp	TE auto/TE/LE
Low voltage halogen with electronic transformer	TE auto/TE
Dimmable CFL	TE auto/TE
Low voltage halogen with magnetic transformer	LE
Fan motor	LE

TE = Trailing Edge, LE = Leading Edge

IMPORTANT NOTE: When connecting with Iron-core transformers or Motor-Loads, only Leading Edge mode (LE) is compatible, the TE auto mode is not suitable for these circuits.

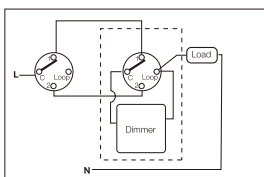
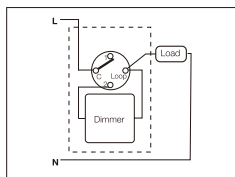
General product application requirements:

- Recycling:** SAL encourages recycling, please consider the environment when disposing of packaging & components.
- Product maintenance** – In line with the relevant design standards and to protect your investment, it is important to have in place a routine cleaning program that reflects the installation environment and maintains the product in a clean and functional condition.
- Adverse, corrosive and coastal installation environments** – Unless the product is specifically designated for such applications in these installation instructions, which is supported by a professional maintenance program; installation of equipment in such environments is not recommended.

4. **Dimming products** – Dimming circuits and product compatibility must be validated by the installer before installation; SAL cannot be responsible for third party changes in dimmer compatibility.

5. **Specific installation procedures & features:**

One-way or two-way operation wiring diagram



Minimum brightness level setting: How to set the Minimum brightness level – the four steps, must be completed within 10 seconds to activate the setting:

Pictorial actions				Activation steps
1				<p>(a) switch the lamp OFF, (b) turn rotary key cap to maximum position, (c) switch the lamp ON.</p>
2				<p>(a) with lamp ON, turn the rotary key cap to the minimum position, (b) switch lamp OFF and then switch lamp ON.</p>
3				<p>(a) turn the rotary key cap to the maximum position, (b) switch the lamp OFF and then ON again and the lamp will flash once at half-brightness.</p>
4				<p>(a) then turn the rotary key cap to the desired brightness level to set the minimum brightness, then switch the lamp OFF and ON once. (b) the lamp will appear at half-brightness then return to the normal brightness level.</p>

Mode setting: How to set the TE auto or LE mode (note: factory default is the TE auto mode): the four steps, must be completed within 10 seconds to activate the setting:

Pictorial actions		Activation steps
1	<p>OFF lamp, Dimmer knob at Min, Switch to Off, ON Min lamp</p>	(a) switch the lamp OFF (b) turn the rotary key cap the minimum position (c) wait 5 seconds, then switch the lamp ON .
2	<p>ON Min lamp, Dimmer knob at Max, Switch to On, OFF lamp, ON Max lamp</p>	(a) turn the rotary key cap to the maximum position (b) switch the lamp OFF and then switch the lamp ON .
3	<p>ON Max lamp, Dimmer knob at Min, Switch to Off, OFF lamp, Flash 4 times lamp, ON Min lamp</p>	(a) turn the rotary key cap to the minimum position (b) switch the lamp OFF and then ON again and the lamp will flash four times at half-brightness.
To select TE auto mode (Factory default) SEE LOAD COMPATIBILITY		
TE auto mode	<p>ON Min lamp, Dimmer knob at Min, Switch to On, OFF lamp, Flash 1 time lamp, ON Min lamp</p>	(a) at the minimum rotary key cap position, switch the lamp OFF and then ON , the lamp with flash once to confirm the setting.
To select LE mode (for special required) SEE LOAD COMPATIBILITY		
LE mode	<p>ON Max lamp, Dimmer knob at Max, Switch to On, OFF lamp, Flash 3 times lamp, ON Max lamp</p>	(a) turn the rotary key cap to the maximum position, then switch the lamp OFF and then ON , the lamp will flash three times at maximum brightness to confirm the setting.

Warranty

In accordance with SAL's standard terms and conditions of sale, SAL warrant this product to be free from defects in materials and or workmanship for a period as stated below for goods not subject to incorrect installation, maintenance, operation, mishandling, environmental, unauthorised modifications or electrical operating conditions outside the nominated product specification as detailed in these installation instructions.

The benefits to you given by this warranty are in addition to other rights and remedies you have under law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Warranty term – Twelve (12) months from date of purchase.

How to make a claim?

Step # 1 – Within 30 days of the fault discovery, please contact the original place of the SAL product purchase during standard (local) business hours with the following information **(a)** proof of purchase **(b)** description and quantity of the claimed fault **(c)** address of installation, **(d)** operating hours of the product.

Step # 2 – It is then the responsibility of the original place of product purchase to report the matter to SAL after sales;

NSW ACT QLD	– SAL Pty Ltd 40 Biloela Street Villawood NSW 2163	P # 02 9723 3099
VICT TAS SA NT WA	– SAL Pty Ltd 46-48 Keys Road Moorabbin Victoria 3189	P # 03 9532 3168

Step # 3 – Upon review of your claim and if the product is required to be returned to SAL for technical evaluation, then at the owners expense the product must be returned to SAL as per the above nominated locations.

Step # 4 – Pending the evaluation, the claim will be validated resulting in the product being repaired or replaced with the same or best equivalent product at the discretion of SAL, or rejected if the product fault was found to be caused by conditions beyond the responsibility of SAL warranty obligations. Consideration of installation, product removal, return freight and o testing fees are not the responsibility of SAL.

DIMENSIONS: 210x140 mm



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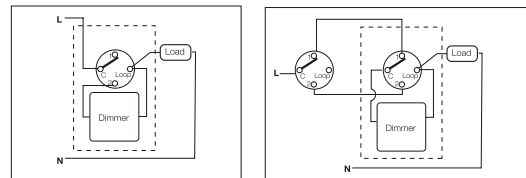
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	(a) switch the lamp OFF , (b) turn rotary key cap to maximum position, (c) switch the lamp ON .
	(a) with lamp ON , turn the rotary key cap to the minimum position, (b) switch lamp OFF and then switch lamp ON .
	(a) turn the rotary key cap to the maximum position, (b) switch the lamp OFF and then ON again and the lamp will flash once at half-brightness.
	(a) then turn the rotary key cap to the desired brightness level to set the minimum brightness, then switch the lamp OFF and ON once. (b) the lamp will appear at half-brightness then return to the normal brightness level.



Mode setting: How to set the TE auto or LE mode (note: factory default is the TE auto mode): the four steps, must be completed within 10 seconds to activate the setting:

Pictorial actions	Activation steps
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	(a) turn the rotary key cap to the maximum position (b) switch the lamp OFF and then switch the lamp ON .
	(a) turn the rotary key cap to the minimum position (b) switch the lamp OFF and then ON again and the lamp will flash four times at half-brightness.
To select TE auto mode (Factory default) SEE LOAD COMPATIBILITY	
	(a) at the minimum rotary key cap position, switch the lamp OFF and then ON , the lamp will flash once to confirm the setting.
To select LE mode (for special required) SEE LOAD COMPATIBILITY	
	(a) turn the rotary key cap to the maximum position, then switch the lamp OFF and then ON , the lamp will flash three times at maximum brightness to confirm the setting.



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