AL Driver 1™

Acclaim™

PROJECT	FIRM	ORDER #	TYPE	QTY

AL Driver 1™ is a single channel PWM dimming driver for low voltage LED products. Using a DC input from 6 to 24V, AL Driver 1 can control RGBW Flex tape up to a total maximum load of 96W.

The connected Flex tape can be controlled using an external DMX or 0-10V input. Alternatively, where external control is not required, you can manually set a static dimming level.

At a glance

Power input

6 to **24**VDC
96W maximum

Outputs

Single channel
PWM dimming

Temperature

14° F to **122° F**
-10° C to **50° C**

Protection

Ingress: **IP20**
(dry location)

Operation modes

DMX control | **Standalone dimming** | **0-10V control**

Specifications

Power input	6-24VDC
Output	Single channel PWM dimming, 0-100%
Output power	96W maximum
Control input protocol	DMX or 0-10V
Material / finish	Black polycarbonate
Ambient temperature range	14° F to 122° F (-10° C to 50° C)
Ingress protection	IP20, dry location
Impact protection	IK06, protection against 1 joule impact
Fixture connectors	Removable multi-pin terminal blocks
Warranty	5 years, limited
Weight	1.6oz (45g)
Dimensions	See page 3
Certifications	Intertek, CE

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Order code

ALD001

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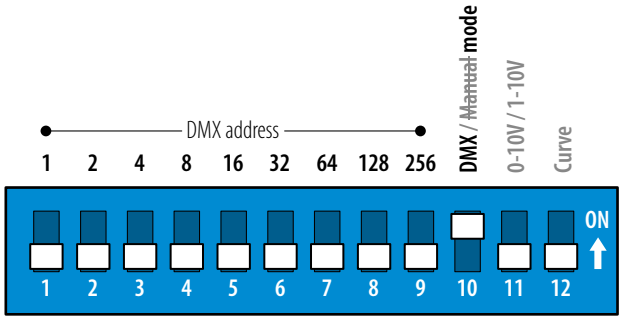
Configuration

The AL Driver 1 is configured using its 12 way switch block. The two main modes of operation are external control or standalone dimming.

External control

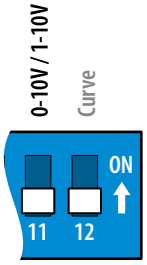
To select external control, ensure that switch 10 is ON. *Note: The DMX and analog (0-10V/1-10V) inputs are both active in this mode, so it is important that only one set of inputs are connected at any one time: either DMX **OR** analog.* When DMX is used, switches 1 to 9 are then used to set the DMX start address. Switches 1 to 9 are 'weighted' with a value as shown here:



Note: Numerous apps are available to assist you with configuring the correct switch combinations for a given DMX address.

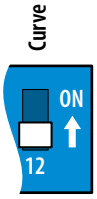
0-10V / 1-10V selection

Using switch 11, you can choose between 0-10V current source (active) or 1-10V current sink (passive) control inputs. The primary difference between the two schemes lies with where the control voltage should be generated: ***Current source*** requires the controlling device to provide (source) the control voltage; whereas ***Current sink*** mandates that the controlled fixture must provide the voltage.



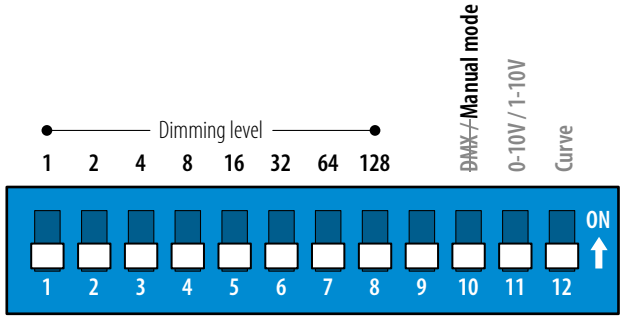
Optional curve smoothing

When switch 12 is set to ON, additional intermediate steps are added to the response curve to help eradicate any visible stepping between the usual 256 (8-bit) dimming levels.



Standalone dimming

To select standalone dimming, ensure that switch 10 is OFF. Switches 1 to 8 are then used to set the overall dimming level: 0 to 255 (100%).



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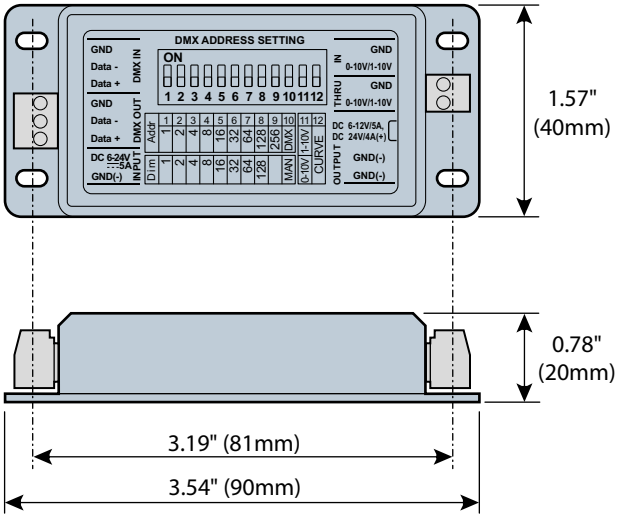
Dimensions



For full installation details, please refer to the **user guide**, available for free download here: