



JAYKAL DUAL WALL SWITCH BI-LEVEL DIMMING DRIVER

OPERATION

Jaykal's Dual Switch Dimming Driver is engineered to retrofit existing office and classroom environments that utilize separate wall switches for inboard and outboard lighting control. The driver incorporates Jaykal's industry-leading bi-level dimming technology, enabling independent control zones that improve occupant usability while delivering measurable energy savings.

This solution allows facilities to modernize lighting control without rewiring, making it ideal for renovation and energy efficiency upgrade projects.

FEATURES

- Active Power Factor Correction
- All material to be ROHs compliant to
- Directive 2011/65/EU and (EU)2015/863
- ANSI/IEEE 62.41, Class A Compliance
- Custom Bi-Level Dimming Preset is Available
- 5 Year Warranty (Life Expectancy of 50,000h at $t_c \leq 75^\circ\text{C}$)

SPECIFICATIONS

Power Factor @Full Load	>0.98@120V	>0.90@277V
THD @ At Least 90% Load	<20%	
0-10 V Dimming	0%-100%	
Start Time Max (s)	1s @ Full load	
Inrush Current (A)	Max 30A	
Environment Protection	UL Damp and Dry Locations	
Operating Temperature	-20°C~40°C	
Storage Temperature	-20°C~55°C	

ELECTRICAL SPECIFICATIONS

MODEL	OUTPUT CURRENT (ma)	OUTPUT VOLTAGE RANGE (Vdc)	OUTPUT POWER (W)	INPUT VOLTAGE (Vac)	INPUT CURRENT (A)	INPUT POWER (W) _MAX	EFFICIENCY @ FULL LOAD	AUXILLIARY POWER SUPPLY
JLS-DM502-63-277-6	350±5%	30-45	63	120	0.64	74	≥86%	12Vdc (Iout Max 100mA)
				277	0.28		≥86%	
JLS-DM502-32-277-6	350±5%	30-45	32	120	0.34	38	≥86%	12Vdc (Iout Max 100mA)
				277	0.14		≥86%	

SWITCHED OUTPUT

LINE INPUT	OUTPUT CURRENT
L2	250mA
L1	300mA
L1 + L2	350mA

Dual Wall Switch Operational Behavior

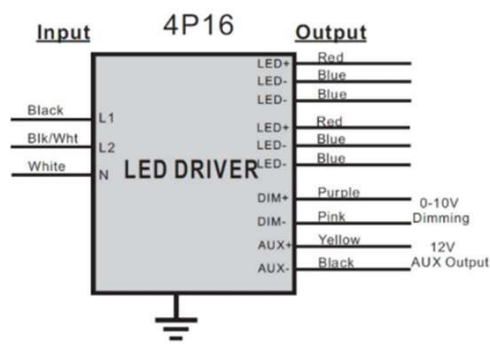
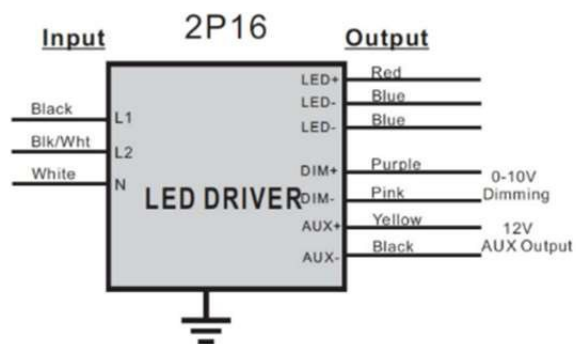
- **Both switches off:** Fixture is off.
- **If either light switch is on:** Fixture is on at 50% dimming*.
- **If both light switches are on:** Fixture is on at 100%.

*Custom bi-level dimming preset is available.

Specifications are typical values and may change without notification



CONDUCTOR RATINGS				
CONDUCTOR TYPE	AWG	COLOR	LENGTH (mm)	REMARKS
INPUT CONDUCTORS	105°C/18AWG	1x Black (L)	300	10±2
		1x White (N)	300	10±2
OUTPUT CONDUCTORS	105°C/20AWG	2x Red (LED+)	300	10±2
		4x Blue (LED-)	300	10±2
DIMMING CONDUCTORS	105°C/22AWG	1x Purple (Dim+)	260	10±2
		1x Pink (Dim-)	260	10±2
AUXILLIARY POWER CONDUCTORS	105°C/22AWG	1x Yellow (AUX+)	260	10±2
		1x Black (AUX-)	260	10±2

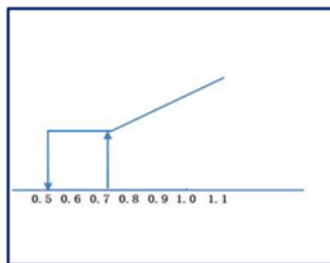
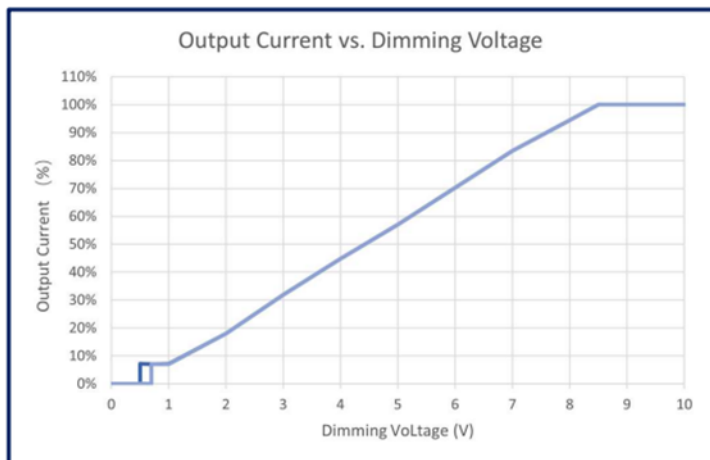


DIMENSIONS	
CASE TOTAL LENGTH (in./mm)	9.5/241
CASE WIDTH (in./mm)	1.3/33
CASE HEIGHT (in./mm)	1.1/29
MOUNTING LENGTH (in./mm)	8.9/226
WEIGHT (lbs./g)	1.03/470

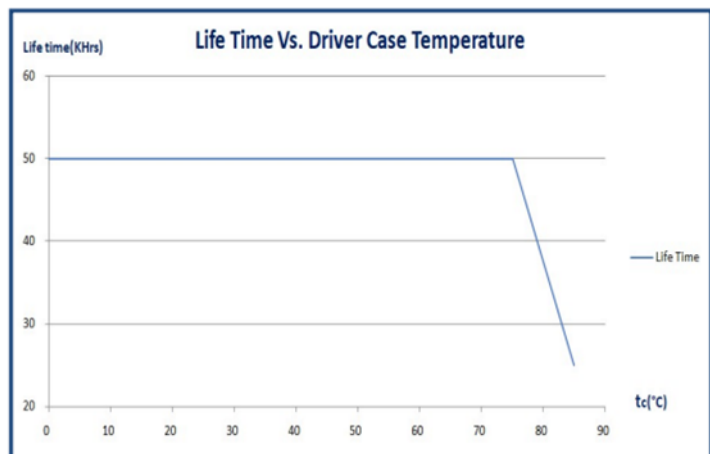
Specifications are typical values and may change without notification



0-10V DIMMING CURVE



DRIVER LIFETIME CURVE



Specifications are typical values and may change without notification