

LED VOLTAGE/CURRENT RATINGS TABLE

ROCKER AND ROTARY SWITCH VOLTAGE/CURRENT RATINGS TABLES

K1, K2, K3P and K4 LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE CATEGORY	LIGHT SOURCE COLOR	FORWARD CURRENT	TYPICAL FORWARD/NOMINAL VOLTAGE	MAX. FORWARD VOLTAGE
6VDC INCANDESCENT	WHITE	.2A	6V	8V
12VDC INCANDESCENT	WHITE	.08A	12V	14V
24VDC INCANDESCENT	WHITE	.04A	24V	28V
125VAC NEON	AMBER	1.9mA	125V	125V
250VAC NEON	AMBER	1.9mA	250V	250V
2V LED*	RED	20mA	1.9V	2.5V
	GREEN	20mA	2.15V	2.5V
	AMBER	20mA	1.95V	2.5V
	BLUE	20mA	3.5V	4.0V
6VDC LED	SEE CHART	20mA	6V	8V
12VDC LED	SEE CHART	20mA	12V	14V
24VDC LED	SEE CHART	20mA	24V	28V

K3/K5 LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE CATEGORY	LIGHT SOURCE COLOR	FORWARD CURRENT	TYPICAL FORWARD/NOMINAL VOLTAGE	MAX. FORWARD VOLTAGE
6VDC INCANDESCENT	WHITE	.2A	6V	8V
12VDC INCANDESCENT	WHITE	.08A	12V	14V
24VDC INCANDESCENT	WHITE	.04A	24V	28V
125VAC NEON	AMBER	1.9mA	125V	125V
250VAC NEON	AMBER	1.9mA	250V	250V
2V LED*	RED	20mA	2V	2.5V
	GREEN	20mA	2.2V	2.6V
	AMBER	20mA	2.1V	2.5V
6V LED	SEE CHART	20mA	6V	8V
12V LED	SEE CHART	20mA	12V	14V
24V LED	SEE CHART	20mA	24V	28V

R2 LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE CATEGORY	LED LIGHT SOURCE COLOR	FORWARD CURRENT	TYPICAL FORWARD/NOMINAL VOLTAGE (DC)	MAX. FORWARD VOLTAGE (DC)
2V*	RED	20mA	2V	2.5V
	GREEN	20mA	2.2V	2.6V
	AMBER	20mA	2.1V	2.5V
6V	SEE CHART	20mA	6V	8V
12V	SEE CHART	20mA	12V	14V
24V	SEE CHART	20mA	24V	28V

*Intended for use with external resistor. The "2 volt" switches are intended to have a resistor added in series into the lighting circuit by the customer. To determine the approximate value of the resistor, use the equation below:

$$\text{RESISTOR SIZE} = \frac{\text{POWER SUPPLY VOLTAGE} - \text{LED FORWARD VOLTAGE}}{\text{LED FORWARD CURRENT}}$$

LED VOLTAGE/CURRENT RATINGS TABLE

ILLUMINATED PUSHBUTTON SWITCH & INDICATOR LIGHTS VOLTAGE/CURRENT RATINGS TABLES

LP3, LP5 AND LPL SERIES

LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE CATEGORY	LED COLOR	FORWARD CURRENT	TYP. FORWARD VOLTAGE (DC)	MAX. FORWARD VOLTAGE (DC)
2V*	RED	20mA	1.9V	2.5V
	GREEN	20mA	2.2V	2.6V
	AMBER			
	BLUE	20mA	3.3V	4V
	DEEP GREEN			
6V	ALL COLORS	20mA	6V	8V
12V	ALL COLORS	20mA	12V	14.5V
24V	ALL COLORS	20mA	24V	28.6V

LP3S AND LP3S-V SERIES

LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE CATEGORY	LED COLOR	FORWARD CURRENT	TYP. FORWARD VOLTAGE (DC)	MAX. FORWARD VOLTAGE (DC)
2V*	RED	20mA	2V	2.5V
	GREEN			
	AMBER			
	BLUE	20mA	3.2V	4V
	DEEP GREEN			
	WHITE			
12V	ALL COLORS	20mA	12V	14V
24V	ALL COLORS	20mA	24V	28.6V

LP3-V AND LP5-V VANDAL RESISTANT SERIES

LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE CATEGORY	LED COLOR	FORWARD CURRENT	MAX. FORWARD CURRENT	TYP. FORWARD VOLTAGE (DC)	MAX. FORWARD VOLTAGE (DC)
2V*	RED	20mA	30mA	2V	2.5V
	GREEN				
	AMBER				
	BLUE	20mA	30mA	3.2V	4V
	DEEP GREEN				
	WHITE				
6V	ALL COLORS	20mA	30mA	6V	8V
12V	ALL COLORS	20mA	30mA	12V	14V
24V	ALL COLORS	20mA	30mA	24V	28.6V

LP7, LP7-D AND LP9 SERIES

LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE CATEGORY	LED COLOR, WAVELENGTH (nm)	FORWARD CURRENT	TYP. FORWARD VOLTAGE	MAX. FORWARD VOLTAGE
2V LIGHTPIPE STYLE*	RED (631)	20mA	2V	2.4V
	GREEN (525)	20mA	3.2V	3.6V
	AMBER (591)	20mA	2.1V	2.4V
	BLUE (470)	20mA	3.3V	3.8V
	WHITE	5mA	2.9V	3.15V
2V, TRANSLUCENT FULLY ILLUMINATED STYLE*	RED (630)	20mA	1.95V	2.5V
	GREEN (525)	20mA	3.3V	4.1V
	AMBER (601)	20mA	2.1V	2.5V
	BLUE (465)	20mA	3.3V	4V
	WHITE	5mA	2.85V	3.1V
12V ALL PRODUCTS	ALL COLORS, SAME AS 2V	(20mA)	12V	14V

LP9L SERIES

LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE CATEGORY	LED COLOR, WAVELENGTH (nm)	FORWARD CURRENT	TYP. FORWARD VOLTAGE	MAX. FORWARD VOLTAGE
2V	RED (631)	20mA	2V	2.4V
	GREEN (525)	20mA	3.2V	3.6V
	AMBER (591)	20mA	2.1V	2.4V
	BLUE (470)	20mA	3.3V	3.8V
	WHITE	5mA	2.9V	3.15V
12V	ALL COLORS, SAME AS 2V	(20mA)	12V	14V

*Intended for use with external resistor. The "2 volt" switches are intended to have a resistor added in series into the lighting circuit by the customer. To determine the approximate value of the resistor, use the equation below:

$$\text{RESISTOR SIZE} = \frac{\text{POWER SUPPLY VOLTAGE} - \text{LED FORWARD VOLTAGE}}{\text{LED FORWARD CURRENT}}$$