UP TO 3 POSITIONS WITH 3 OPTIONAL, INDEPENDENT LED LIGHT POSITIONS

Used in the heavy equipment, marine, process control and instrumentation markets, the R2 rotary switch is an excellent replacement for rocker switches, offering improved visual position indication, additional lighting options and different styling opportunities on front panels. The R2 is a sealed, lighted rotary switch which snaps into a 1.475" x 0.875" industry standard rocker switch panel opening. The rotary knob snaps onto a shaft and can be installed by the panel builder for those desiring that flexibility. The R2 rotary switch provides up to three positions in all combinations of momentary and maintained action. It is capable of handling loads from logic level up to 20 amps resistive. Sealing is to IP68S via a shaft O-ring seal in front and a potted base in the back. Termination options include 0.250" faston or a snap-on modular connector. The R2 offers unique lighting options including up to three independent LED light positions which illuminate a lens on the rotary knob. This design provides more lighting options than traditional rocker switches, handles the full range of electrical loads and is robust enough to survive in the most demanding applications.

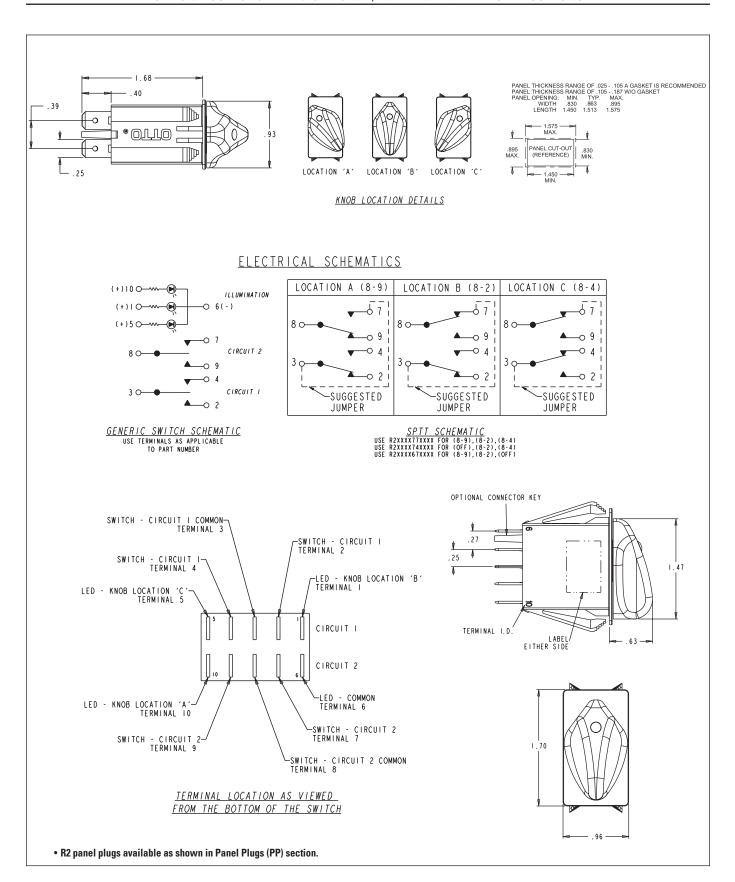


Features:

- Sealed watertight per IP68S
- Snap-in panel mounting into industry standard 1.475" x 0.875" panel cutout
- Unique lighting options—up to 3 independent **LED** light positions
- Plastic or Soft Touch knob options available
- 2 or 3 positions in all combinations of momentary & maintained action
- Termination can be used as 0.250" faston or with snap-on modular connector

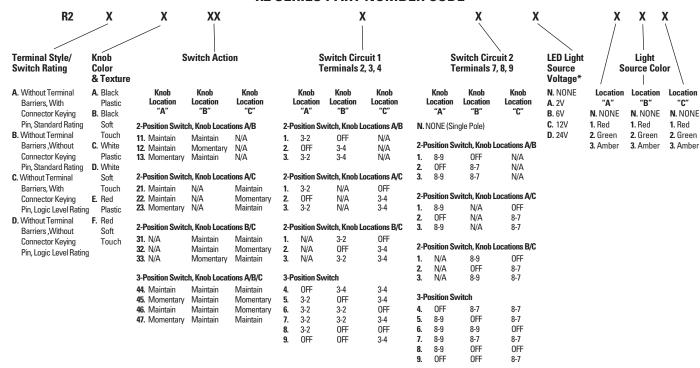
Standard Characteristics/Ratings:					
ELECTRICAL RATINGS:					
Load	Sea Level @ 12/28VDC	Sea Level @ 125VAC			
Resistive	20A	16A			
Inductive	15A	15A			
Lamp	4A	4A			
Motor	0.5HP @ 110VAC				
DWV	1000Vrms except acro	oss light terminals			
Logic Level	10mA @ 5VDC, max D (void if logic level load	.C. logic level ratings d(s) exceeded at any time)			
Electrical Life:	25,000 cycles at full lo	ad			
Lighting:	LED 2V, 6V, 12V, 24V (VDC)				
Mechanical Life:	100,000 cycles				
Seal:	IP68S				
Operating Temp Range:	-40°C to +85°C				
MATERIALS:					
Case:	Thermoplastic				
Knob:	Thermoplastic				
Lens:	Thermoplastic, clear				
Terminals:	Copper, silver plate, g	old plate for logic level			
Contacts:	Silver alloy, gold plate	for logic level			
Terminal Hardware:	R2 recommended Qui AMP 60253-2 for 12-10 AMP 42100-2 for 14-13				
Mounting Hardware:	None provided				

UP TO 3 POSITIONS WITH 3 OPTIONAL, INDEPENDENT LED LIGHT POSITIONS

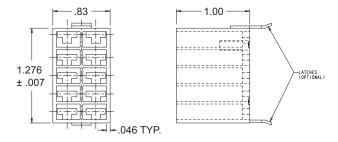


UP TO 3 POSITIONS WITH 3 OPTIONAL, INDEPENDENT LED LIGHT POSITIONS

R2 SERIES PART NUMBER CODE



^{*}See appendix for complete voltage/ratings table



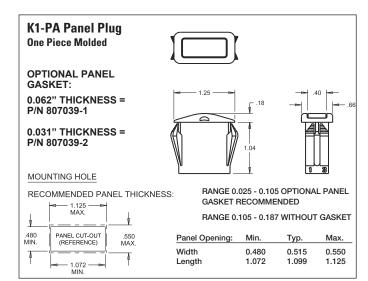
R2 Connector
P/N C801775-2A Without Latches
P/N C801775-2B With Latches

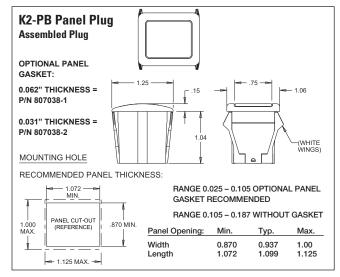
Recommended Quick Connect Terminals AMP C60253-2 for 12-16 AWG AMP C42100-2 for 14-18 AWG

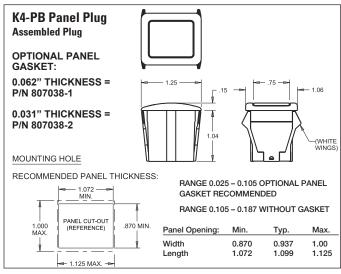
Panel Seal Gasket P/N C807109

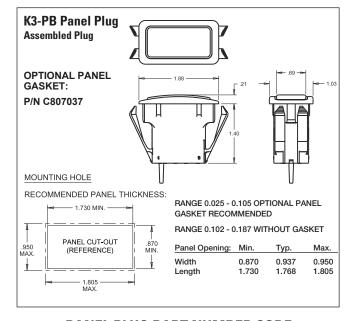
PANEL PLUGS FOR ROCKER & R2 SERIES

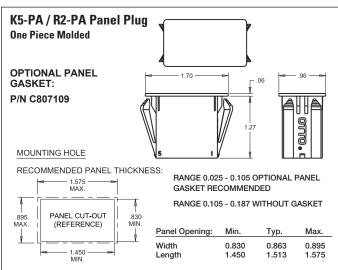
K1 THROUGH K5 & R2 PANEL PLUGS

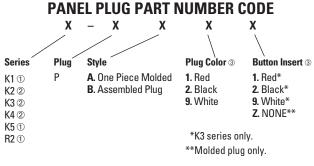












- ① Available in Style A only.
- 2 Available in Style B only.
- 3 Additional colors available. Contact factory.

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	FORWARD	TYPICAL FORWARD/	MAX. FORWARD
COLOR	CURRENT	NOMINAL VOLTAGE	VOLTAGE
WHITE	.2 AMPS	6 VDC	8 VDC
WHITE	.08 AMPS	12 VDC	14 VDC
WHITE	.04 AMPS	24 VDC	28 VDC
AMBER	1.9 mA	125 VAC	125 VAC
AMBER	1.9 mA	250 VAC	250 VAC
RED	20 mA	1.9 VDC	2.5 VDC
GREEN	20 mA	2.15 VDC	2.5 VDC
AMBER	20 mA	1.95 VDC	2.5 VDC
BLUE	20 mA	3.5 VDC	4.0 VDC
SEE CHART	20 mA	6 VDC	8 VDC
SEE CHART	20 mA	12 VDC	14 VDC
SEE CHART	20 mA	24 VDC	28 VDC
	COLOR WHITE WHITE WHITE AMBER AMBER RED GREEN AMBER BLUE SEE CHART SEE CHART	COLOR CURRENT WHITE .2 AMPS WHITE .08 AMPS WHITE .04 AMPS AMBER 1.9 mA AMBER 1.9 mA RED 20 mA GREEN 20 mA AMBER 20 mA BLUE 20 mA SEE CHART 20 mA	COLOR CURRENT NOMINAL VOLTAGE WHITE .2 AMPS 6 VDC WHITE .08 AMPS 12 VDC WHITE .04 AMPS 24 VDC AMBER 1.9 mA 125 VAC AMBER 1.9 mA 250 VAC RED 20 mA 1.9 VDC GREEN 20 mA 2.15 VDC AMBER 20 mA 1.95 VDC BLUE 20 mA 3.5 VDC SEE CHART 20 mA 6 VDC SEE CHART 20 mA 12 VDC

K3/K5 LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE	LIGHT SOURCE	FORWARD	TYPICAL FORWARD/	MAX. FORWARD
CATEGORY	COLOR	CURRENT	NOMINAL VOLTAGE	VOLTAGE
6 VDC INCANDESCENT	WHITE	.2 AMPS	6 VDC	8 VDC
12 VDC INCANDESCENT	WHITE	.08 AMPS	12 VDC	14 VDC
24 VDC INCANDESCENT	WHITE	.04 AMPS	24 VDC	28 VDC
125 VAC NEON	AMBER	1.9 mA	125 VAC	125 VAC
250 VAC NEON	AMBER	1.9 mA	250 VAC	250 VAC
	RED	20 mA	2.0 VDC	2.5 VDC
2 V LED PRODUCTS*	GREEN	20 mA	2.2 VDC	2.6 VDC
	AMBER	20 mA	2.1 VDC	2.5 VDC
6 V LED PRODUCTS	SEE CHART	20 mA	6 VDC	8 VDC
12 V LED PRODUCTS	SEE CHART	20 mA	12 VDC	14 VDC
24 V LED PRODUCTS	SEE CHART	20 mA	24 VDC	28 VDC

R2 LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE	LIGHT SOURCE	FORWARD	TYPICAL FORWARD/	MAX. FORWARD
CATEGORY	COLOR	CURRENT	NOMINAL VOLTAGE	VOLTAGE
	RED	20 mA	2.0 VDC	2.5 VDC
2 V LED PRODUCTS*	GREEN	20 mA	2.2 VDC	2.6 VDC
	AMBER	20 mA	2.1 VDC	2.5 VDC
6 V LED PRODUCTS	SEE CHART	20 mA	6 VDC	8 VDC
12 V LED PRODUCTS	SEE CHART	20 mA	12 VDC	14 VDC
24 V LED PRODUCTS	SEE CHART	20 mA	24 VDC	28 VDC

RESISTOR SIZE = POWER SUPPLY VOLTAGE - LED FORWARD VOLTAGE LED FORWARD CURRENT

^{*}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:

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
	RED	20 mA	1.9V	2.5V
2V*	GREEN	20 mA	2.2V	2.6V
PRODUCTS	AMBER	20 IIIA		
	BLUE	20 mA	3.3V	4V
	DEEP GREEN			
6V PRODUCTS	ALL COLORS	20 mA	6V	8V
12V PRODUCTS	ALL COLORS	20 mA	12V	14.5V
24V PRODUCTS	ALL COLORS	20 mA	24 V	28.6 V

LP3S LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

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

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) GREEN (525) AMBER (591) BLUE (470) WHITE	20 mA 20 mA 20 mA 20 mA 5 mA	2V 3.2V 2.1V 3.3V 2.9V	2.4V 3.6V 2.4V 3.8V 3.15V
2V, TRANSLUCENT FULLY ILLUMINATED STYLE	RED (630) GREEN (525) AMBER (601) BLUE (465) WHITE	20 mA 20 mA 20 mA 20 mA 5 mA	1.95V 3.3V 2.1V 3.3V 2.85V	2.5V 4.1V 2.5V 4V 3.1V
12V ALL PRODUCTS	ALL COLORS, SAME AS 2V	(20 mA)	12.0V	14.0V

LP9L SERIES LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE CATEGORY	LED COLOR, WAVELENGTH (nm)	FORWARD CURRENT	TYP. FORWARD VOLTAGE	MAX. FORWARD VOLTAGE
2V PRODUCTS	RED (631) GREEN (525) AMBER (591) BLUE (470) WHITE	20 mA 20 mA 20 mA 20 mA 5 mA	2V 3.2V 2.1V 3.3V 2.9V	2.4V 3.6V 2.4V 3.8V 3.15V
12V PRODUCTS	ALL COLORS, SAME AS 2V	(20 mA)	12.0V	14.0V

^{*}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:

RESISTOR SIZE = POWER SUPPLY VOLTAGE - LED FORWARD VOLTAGE LED FORWARD CURRENT

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

OTTO:

 R2AA455NC2N2
 R2000000015
 R2AB4649DN22
 R2BF4555C212
 R2CB4649D2NN
 R2DB4477NNNN

 R2AA312NNNNN
 R2AA4446NNNN
 R2AB4477C333
 R2AB4477D321
 R2AB4649D2NN
 R2AC4455C1N2

 R2AE212NNNNN
 R2BB2133C2N2
 R2AA2233D1N1
 R2AA4455C1N2
 R2AA4645CN2N
 R2AA4649CN2N

 R2AB211NC2N1
 R2AB4449DN32
 R2AA212NCNN1
 R2AA2133D2N1