The K1 and K2 series are sealed to IP68S and IP69K with an optional panel gasket available.

The K1 series is offered in single pole configuration and the K2 series is available in both single and double pole configurations. Both series offer illuminated models. Illumination can be independent or dependent of the switch position or a combination of both. A choice of red, green, clear or amber colored lenses are offered in illuminated models. Illumination options include incandescent, LED or neon light sources.

Mounting is simple and quick; snaps into panel from the front. The OTTO snap-in design supports a variety of panel thicknesses with just one cutout size.

A choice of models are offered to handle power levels to 16 amps, 1/2 HP and logic level electronic switching applications.

Custom colors are available upon request. Value-added assemblies with wire leads are also available. Please contact our factory for assistance.

Features:

- Sealed to IP68S and IP69K
- Fits industry standard panel openings for drop-in replacement of panel sealed & unsealed switches
- Snap-in feature accommodates a wide range of panel cutouts
- Switches up to 16 amps
- **UV & solvent resistant**
- Withstands extreme shock & vibration
- **Custom legends available**
- 2 & 3-position, momentary & maintained action
- Incandescent, LED & neon illumination with independent & dependent light source options
- **UL recognized & CSA certified**
- Ignition protected
- Optional panel gasket available
- **RoHS/WEEE/Reach compliant**





Single & Double Pole

FL (IF)

Standard Character	istics/Ratings:		
ELECTRICAL RATINGS	:		
Load	Sea Level @ 28VDC or 125/250VAC, 60Hz	Cycles	
Resistive	16A	25,000	
Resistive	10A	50,000	
Inductive	10A	25,000	
Lamp	5A	25,000	
Motor	0.5HP	25,000	
DWV	1000Vrms except across light terminals		
Logic Level	10-100mA @ 3-28V, max D.C. logic level ratings (void if logic level load(s) exceeded at any time)		
Electrical Life:	See Rating Chart		
LIGHTING:			
Light Source	Rating (see page 166 or appendix for complete voltage/ current ratings table)		
Incandescent	(VDC) 6V, 12V, 24V		
Neon	(VAC) 125V, 250V		
LED	(VDC) 2V, 6V, 12V, 24V		
Mechanical Life:	100,000 cycles		
Seal:	IP68S and IP69K		
Operating Temp Range:	-30°C to +85°C		
MATERIALS:			
Case:	Thermoplastic		
Button:	Thermoplastic		
Base:	Thermoplastic		
Terminals/Contact:	Brass, silver alloy with si	liver plate, gold flash for logic level	
Terminal Hardware:	Screws and lockwashers provided when applicable K1/K2 series recommended Quick Connect terminals: AMP 60253-2 for 12-16 AWG AMP 42100-2 for 14-18 AWG		
Mounting Hardware:	None provided		

K1

SEALED, ILLUMINATED ROCKER SWITCHES

LOW COST, SNAP-IN ROCKER FOR WET & DUSTY ENVIRONMENTS

K1 PART NUMBER CODE

Terminal Style/ Switch Rating

- A. Q.C./Std.
- B. Screw/Std.
- c. Solder/Std.
- D. Q.C./Logic Level
- E. Screw/Logic Level
- F. Solder/Logic Level
- G. PC Pin/Std.
- H. PC Pin/Logic Level

Actuator Color/Style

Χ

A. Red/Rocker

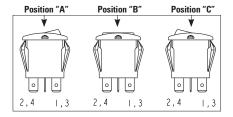
X

- B. Black/Rocker
- c. White/Rocker
- D. Red/Paddle
- E. Black/Paddle
- F. White/Paddle
- G. Red/Rocker Pinned
- H. Black/Rocker Pinned
- J. White/Rocker Pinned
- K. Red/Short Paddle Pinned L. Black/Short Paddle Pinned
- M. White/Short Paddle Pinned
- N. Red/Standard Paddle Pinned
- P. Black/Standard Paddle Pinned
- R. White/Standard Paddle Pinned
- T. Red/Short Paddle
- U. Black/Short Paddle
- v. White/Short Paddle

X

Switch Action/Circuit

	Position "A"	Position "B"	Position "C"	Circuit	
A.	1-C	NONE	OFF	SPST	
B.	1-C	NONE	2-C	SPDT	
C.	(1-C)	NONE	OFF	SPST	
D.	(1-C)	NONE	2-C	SPDT	
E.	(1-C)	OFF	(2-C)	SPDT	
F.	1-C	OFF	2-C	SPDT	
G.	(1-C)	OFF	2-C	SPDT	
H.	OFF	NONE	2-C	SPST	
NOTE: () denotes momentary action.					



Part Number Code Continued Below

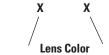
Light Type*

- A. No Light
- B. 6V Incandescent
- C. 12V Incandescent
- D. 24V Incandescent
- E. 125VAC Neon
- F. 250VAC Neon
- G. 2V Red LED
- H. 2V Green LED
- J. 2V Amber LED
- K. 6V Red LED
- L. 6V Green LED
- M.6V Amber LED
- N. 12V Red LED
- P. 12V Green LED
- Q. 12V Amber LED
- R. 24V Red LED
- S. 24V Green LED
- T. 24V Amber LED
- *See page 168 or appendix for complete voltage/ratings table

K1 Continued

NOTES:

lenses



Position "A" Position "C"

- A. No Lens B. Red
- A. No Lens B. Red
- C. Green
- D. Amber
- C. Green

- E. Clear
- D. Amber E. Clear

Light/Circuit Location A. No Light

K1 PART NUMBER CODE CONTINUED FROM ABOVE



ON in position "A" Wired to terms 1 & 3



Dependent Light ON in position "A" Wired to terms 1 & 3 Dependent Light ON in position "C" Wired to terms 2 & 4



Wired to terms 2 &



Independent Light at position "A" Wired to terms 3 & 4

Dependent Light ON in position "A" Wired to terms 1 & 3 Independent Light ON in position "C" Nired to terms 3 & 4





Wired to terms 3 & 4 **D** = Dependent Light I = Independent Light

- LED anode (+) terminal number shown in bold.
- Light on OFF side must be independent.
- Contact factory for multiple light types in the same switch.

Legend & Orientation

X

A. None















• K1 panel plugs available as shown on page 183.

. No momentary switches with dependent lights. . Neon lamps only to be coded with clear or amber

• LED lenses must be clear or same color as LED.

• All legends printed on actuators without lens(es)

will be white except actuator codes C, F, J, M & R.

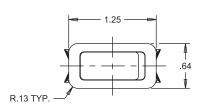
• All legends printed on lenses will be white except

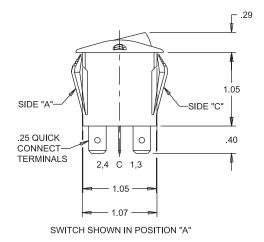
. No dependent light in OFF position.

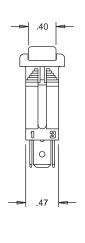
on clear lens(es) will be black.

LOW COST, SNAP-IN ROCKER FOR WET & DUSTY ENVIRONMENTS







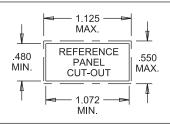


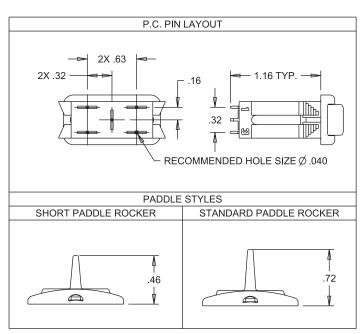
MOUNTING HOLE:

PANEL THICKNESS RANGE OF .025 - .105 A GASKET IS RECOMMENDED, 0.031" THICKNESS = GASKET P/N 807039-2 0.062" THICKNESS = GASKET P/N 807039-1

PANEL THICKNESS RANGE OF .105 - .187 W/O GASKET MIN. TYP PANEL OPENING: MAX.

WIDTH .515 .550 .480 LENGTH 1.072 1.099 1.125

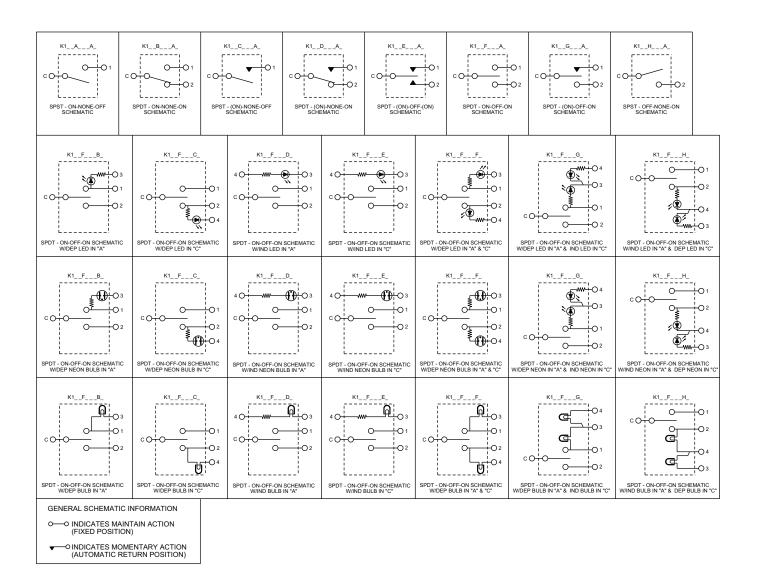




TERMINAL STYLES (.032 THICK)						
SCREW	QUICK CONNECT	SOLDER	P.C. PIN			
#6-32 THD 7	Ø.08 25	Ø.11 ———————————————————————————————————	.25			

SEALED, ILLUMINATED ROCKER SWITCHES

LOW COST, SNAP-IN ROCKER FOR WET & DUSTY ENVIRONMENTS



K1, K2, K3P and K4 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	1.9 VDC	2.5 VDC
2 V LED PRODUCTS*	GREEN	20 mA	2.15 VDC	2.5 VDC
	AMBER	20 mA	1.95 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