K2 Sealed with Illumination Options

K2 series rockers are engineered to deliver robust performance while maintaining a compact form factor. With a body width twice that of the K1 series, they provide enhanced functionality without compromising suitability for space-constrained applications. Designed for harsh environments, these high-performance sealed switches are ideal for marine, heavy equipment, and industrial control applications.

Rated to IP6K8S and IP6K9K, K2 rockers are panel-sealed with the option of a supplementary gasket for added protection. Installation is streamlined with a snap-in design that accommodates a range of panel thicknesses, all using a single standard cutout size.

Available in both single-pole and double-pole configurations, the K2 Series has illuminated and non-illuminated versions. Illumination options include dependent, independent, or combined modes relative to the switch position. Lens color choices include red, green, amber and clear with incandescent, LED, or neon light sources.

A variety of models support both high-power and logic-level electronic switching applications. Additionally, value-added customization is available, including wire lead assemblies and custom colors.

For specialized configurations or technical assistance, please contact our factory.

FEATURES:

- Sealed to IP6K8S and IP6K9K
- Fits industry-standard panel openings for drop-in replacement of panel sealed and unsealed switches
- Snap-in feature accommodates a wide range of panel cutouts
- UV and solvent resistant
- Withstands extreme shock and vibration
- Custom legends available
- 2 and 3-position, momentary and maintained action
- Incandescent, LED and neon illumination with independent and dependent light source options
- UL 1500 ignition protected
- Optional one-piece connector
- Optional panel gasket available
- RoHS compliant



K2 Series
Single Pole



K2 Series - Illuminated
Double Pole

Standard Characteristics/Ratings:			
ELECTRICAL RATINGS:			
Load	**Sea Level @ 28VDC**	**Sea Level @ 125/250 VAC, 60/400Hz**	**Cycles**
Resistive	16A	5A	25,000
Resistive	10A	N/A	50,000
Inductive	7A	2A	25,000
DWV	1000Vrms except across light terminals		
Logic Level	10mA @ 5VDC, 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 appendix for complete voltage/current ratings table)		
Incandescent	*(VDC)* 6V, 12V, 24V		
Neon	*(VAC)* 125V, 250V		
LED	*(VDC)* 2V, 6V, 12V, 24V		
Mechanical Life:	Up to 100,000 cycles		
Seal:	IP6K8S and IP6K9K		
Operating Temp Range:	-30°C to +85°C		
MATERIALS:			
Case:	Thermoplastic		
Button:	Thermoplastic		
Base:	Thermoplastic		
Terminals/Contact:	Brass, silver alloy with silver 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		

Your official representative

ALDERS®
Indicate. Control. Connect.

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47906 Kempen - Germany

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sales@alders.de

K2 Rocker

Part Number Code

K2 - X X X

Terminal Style/ Switch Rating

- **A.** Quick Connect/ Standard
- **B.** Screw/Standard
- **C.** Solder/Standard
- **D.** Quick Connect/ Logic Level
- **E.** Screw/Logic Level
- **F.** Solder/Logic Level
- **G.** PC Pin/Standard
- **H.** PC Pin/Logic Level

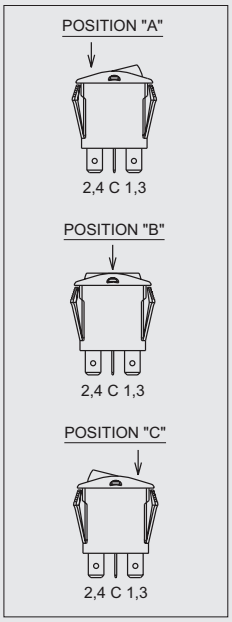
Actuator Color/Style

- **A.** Red Standard
- **B.** Black Standard
- **C.** White Standard
- **D.** Red Standard Paddle
- **E.** Black Standard Paddle
- **F.** White Standard Paddle
- **G.** Red Short Paddle Pinned
- **H.** Black Short Paddle Pinned
- **J.** White Short Paddle Pinned
- **K.** Red Standard Paddle Pinned
- **L.** Black Standard Paddle Pinned
- **M.** White Standard Paddle Pinned
- **N.** Red Standard Pinned
- **P.** Black Standard Pinned
- **R.** White Standard Pinned

NOTE: For custom colors, contact factory.

Switch Action/Circuit

	Position "A"	Position "B"	Position "C"	Circuit
A.	1-C1	NONE	OFF	SPST
B.	1-C1	NONE	2-C1	SPDT
C.	*(1-C1)*	NONE	OFF	SPST
D.	*(1-C1)*	NONE	2-C1	SPDT
E.	*(1-C1)*	OFF	*(2-C1)*	SPDT
F.	1-C1	OFF	2-C1	SPDT
G.	*(1-C1)*	OFF	2-C1	SPDT
H.	1-C1/3-C2	NONE	OFF	DPST
J.	1-C1/3-C2	NONE	2-C1/4-C2	DPDT
K.	*(1-C1)/(3-C2)*	NONE	OFF	DPST
L.	*(1-C1)/(3-C2)*	NONE	2-C1/4-C2	DPDT
M.	*(1-C1)/(3-C2)*	OFF	*(2-C1)/(4-C2)*	DPDT
N.	1-C1/3-C2	OFF	2-C1/4-C2	DPDT
P.	*(1-C1)/(3-C2)*	OFF	2-C1/4-C2	DPDT
Q.	1-C1	NONE	*(2-C1)*	SPDT
R.	OFF	NONE	*(2-C1)*	SPST
S.	1-C1/3-C2	NONE	*(2-C1)/(4-C2)*	DPDT
T.	OFF	NONE	*(2-C1)/(4-C2)*	DPST
U.	1-C1	OFF	*(2-C1)*	SPDT
V.	1-C1/3-C2	OFF	*(2-C1)/(4-C2)*	DPDT



Part Number Code Continued

X XX X X

Light Type*

- **A.** No Light
- **B.** 6V Incandescent
- **C.** 12V Incandescent
- **D.** 24V Incandescent
- **E.** 125 VAC Neon
- **F.** 250 VAC 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 appendix for complete voltage/ratings table

Lens Color

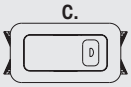
Position "A"	Position "C"
A. No Lens	**A.** No Lens
B. Red	**B.** Red
C. Green	**C.** Green
D. Amber	**D.** Amber
E. Clear	**E.** Clear

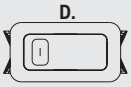
Light/Circuit Location

A No Light

B.

Dependent Light ON in position "A" Wired to terms **1** & 7

C.

Dependent Light ON in position "C" Wired to terms **2** & 8

D.

Independent Light at position "A" Wired to terms **8** & 7

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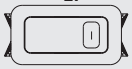

Independent Light at position "C" Wired to terms **8** & 7

F.

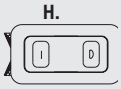
Dependent Light ON in position "A" Wired to terms **1** & 7

Dependent Light ON in position "C" Wired to terms **2** & 8

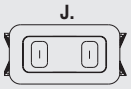
G.

Dependent Light ON in position "A" Wired to terms **1** & 7

Independent Light at position "C" Wired to terms **8** & 7

H.

Independent Light ON in position "A" Wired to terms **7** & 8

Dependent Light ON in position "C" Wired to terms 2 & 8

J.

Independent Light ON in position "A" Wired to terms **7** & 3

Independent Light ON in position "C" Wired to terms **8** & 4

Not available in DP

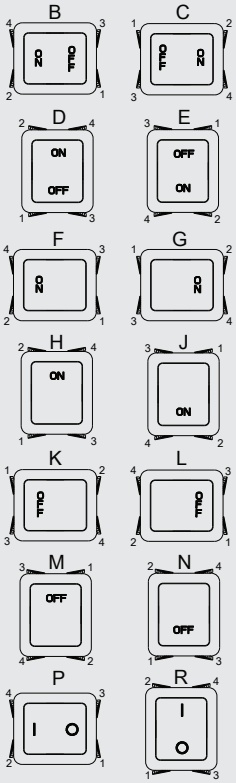
D = Dependent Light
I = Independent Light

NOTES:

- 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

A None

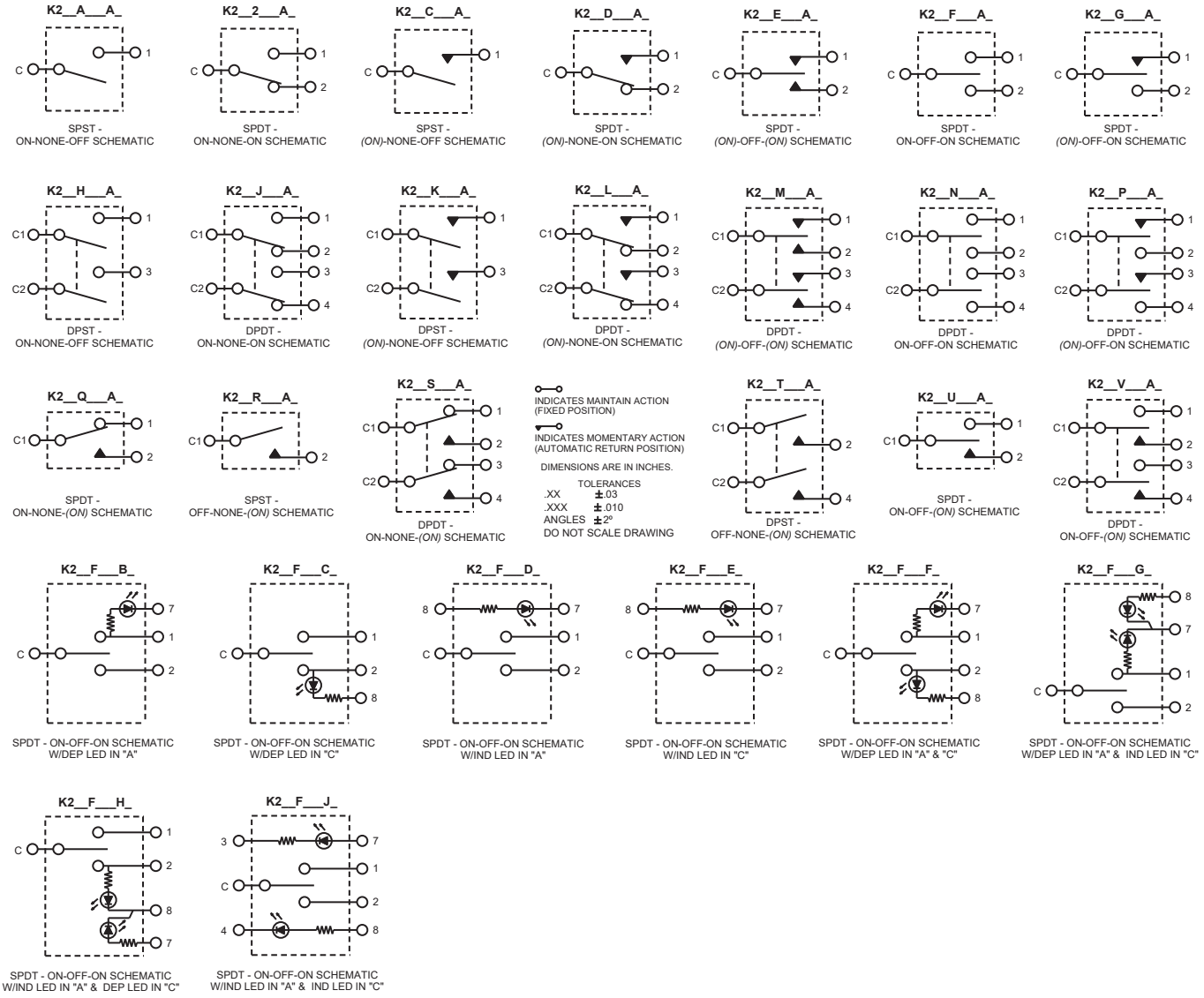


NOTES:

- No momentary switches with dependent lights.
- Neon lamps only to be coded with clear or amber lenses.
- LED lenses must be clear or same color as LED.
- **K2 connector P/N C801765.** ***(See Connector page in Hardware and Accessories)***
- Recommended Quick Connect Terminals:
  AMP 60253-2 for 12-16 AWG wire with 0.160" -0.210" insulation OD
  AMP 42100-2 for 14-18 AWG wire with 0.100" -0.170" insulation OD
- No dependent light in OFF position.
- All legends printed on actuators without lens*(es)* will be white except actuator codes C, F, J, M and R.
- All legends printed on lenses will be white except on clear lens*(es)* will be black.
- **K2 panel plugs available as shown in Panel Plugs *(PP)* section.**

Specifications Subject To Change Without Notice

K2 Rocker Schematics

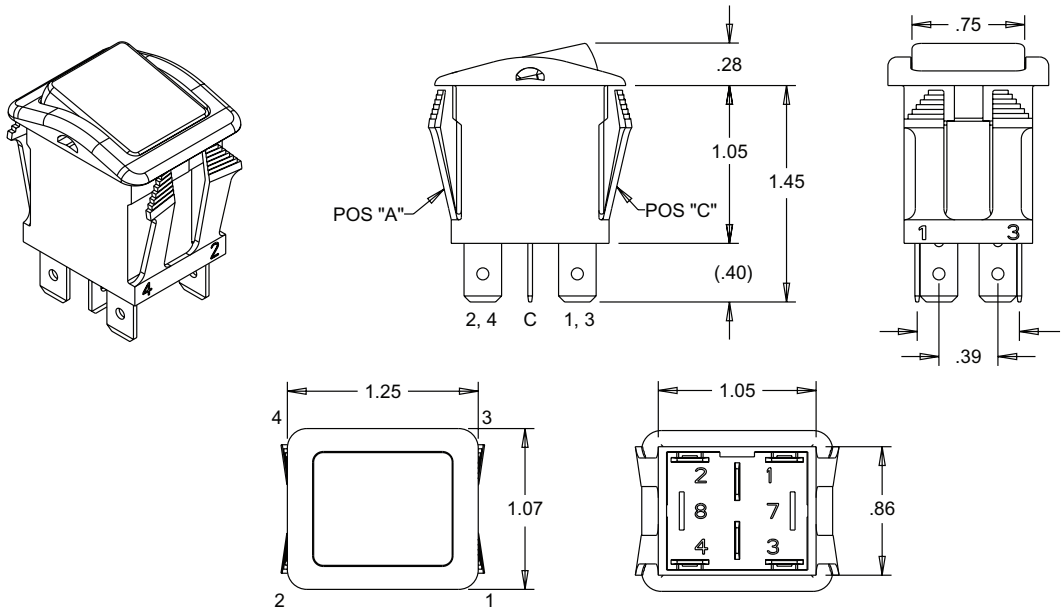


K1, K2, K3P, and K4 Lighting Voltage/Current Components Ratings

LIGHT SOURCE VOLTAGE CATEGORY	LIGHT SOURCE COLOR	FORWARD CURRENT	TYPICAL FORWARD/ NOMINAL VOLTAGE (DC)	MAX. FORWARD VOLTAGE (DC)
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

*** See Appendix for complete Voltage/Ratings Table.**

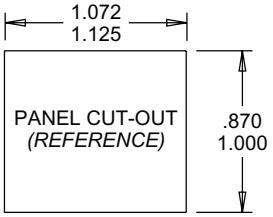
K2 Rocker Drawings



PANEL THICKNESS AND MOUNTING OPENING GUIDELINES:

PANEL THICKNESS RANGE OF .025 - .105
(GASKET RECOMMENDED)

PANEL THICKNESS RANGE OF .105 - .187
(GASKET NOT REQUIRED)

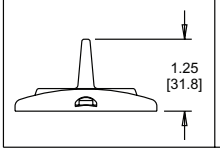
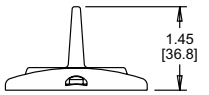
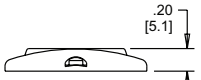


OPTIONAL PANEL GASKET:

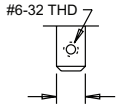
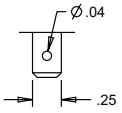
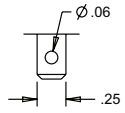
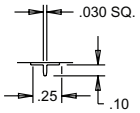
0.062" THICKNESS = P/N C807038-25-1

0.031" THICKNESS = P/N C807038-25-2

ROCKER STYLES

SHORT PADDLE ROCKER	STANDARD PADDLE ROCKER	STANDARD ROCKER
		

TERMINAL STYLES (.032 THICK)

SCREW	QUICK CONNECT	SOLDER	P.C. PIN
			

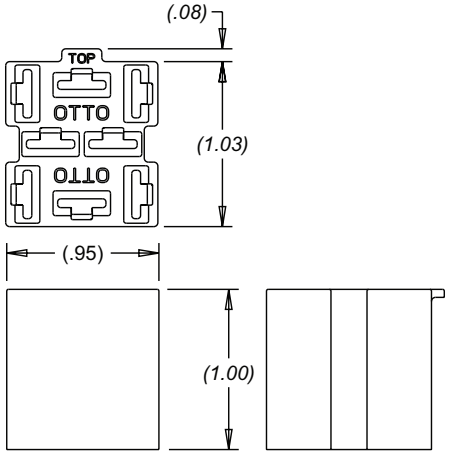
K1/K4/T7 Connector
Part Number Code

C801765 -	XX	XXXX

Connector Color
- **01.** Red
- **02.** Black
- **03.** Orange*
- **04.** Yellow*
- **05.** Green*
- **06.** Blue*
- **07.** Violet*
- **08.** Gray*
- **09.** White

* Contact Factory

Packaging Quantity
- **0025** - 25 Pcs per Package
- **0050** - 50 Pcs per Package
- **0100** - 100 Pcs per Package



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