K1 Sealed with Illumination Options

K1 series rockers are engineered with a narrow profile, ideal for applications where space is limited. These single-pole, high-performance sealed switches are specifically designed to withstand the demanding conditions typical of marine, heavy equipment and industrial control environments.

Rated to IP6K8S and IP6K9K, the K1 Series provides reliable sealing, with optional panel gaskets available for enhanced panel integrity. The switches feature a user-friendly snap-in mounting design that accommodates a variety of panel thicknesses—all with a single standard cutout.

The K1 series has illuminated and non-illuminated models. Illumination options include dependent, independent or dual-function lighting relative to the switch position. Lens color choices are red, green, amber, and clear, with incandescent, LED or neon light sources.

A choice of models are offered to handle high power levels and logic level electronic switching applications.

Customized value-added assemblies—including wire leads and custom color options—are also available. For tailored solutions or technical support, please contact our factory directly.

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



K1 Series
Single Pole



K1 Series - Illuminated
Single 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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K1 Rocker
Part Number Code

K1 - X X X X

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

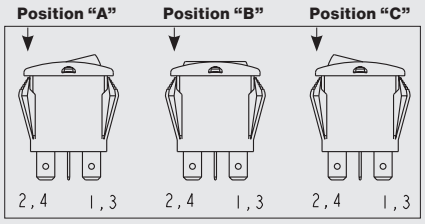
Actuator Color/Style

A. Red/Rocker
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

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.



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 appendix for complete voltage/ratings table

Part Number Code Continued

X X X X

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.

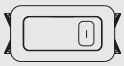
Dependent Light ON in position "A" Wired to terms **1** & 3

C.

Dependent Light ON in position "C" Wired to terms **2** & 4

D.

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

E.

Independent Light at position "C" Wired to terms 3 & **4**

F.

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

G.

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

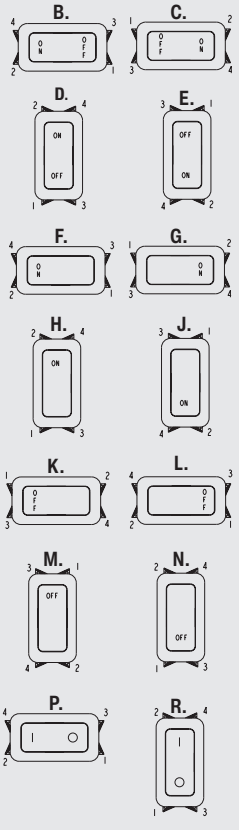
H.

Independent Light at position "A" Wired to terms **3** & 4
Dependent Light ON in position "C" Wired to terms **2** & 4

D = Dependent Light
I = Independent Light

Legend & Orientation

A. None



OPTIONAL BOOT PART NUMBER

C405810-25-12 *(Translucent)*
C405810-25-2 *(Black)*

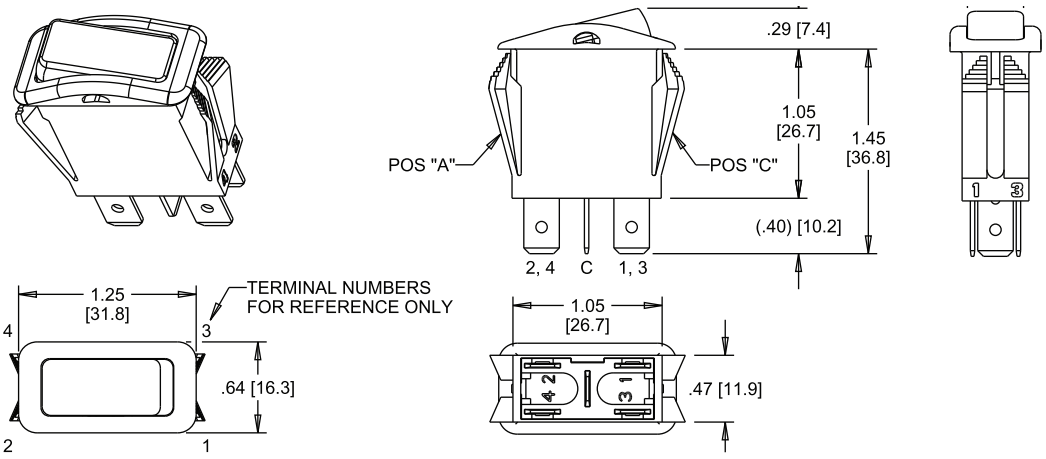
NOTES:
- No momentary switches with dependent lights.
- Neon lamps only to be coded with clear or amber lenses.
- LED lenses must be clear or same color as LED.
- No dependent light in OFF position.
- All legends printed on actuators without lens*(es)* will be white except actuator codes C, F, J, M & R.
- All legends printed on lenses will be white except on clear lens*(es)* will be black.

- K1 panel plugs available as shown in Panel Plugs *(PP)* section.

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.

Specifications Subject To Change Without Notice

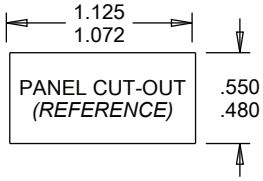
K1 Rocker Drawings



PANEL THICKNESS AND MOUNTING OPENING GUIDELINES:

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

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

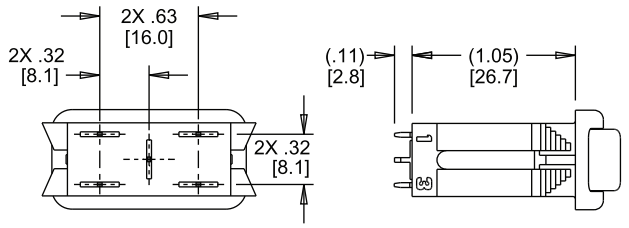


OPTIONAL PANEL GASKET:

0.062" THICKNESS = P/N C807039-25-1

0.031" THICKNESS = P/N C807039-25-2

P.C. PIN LAYOUT



PADDLE STYLES

SHORT PADDLE ROCKER	STANDARD PADDLE ROCKER	STANDARD ROCKER
.46 [11.7]	.72 [18.3]	.20 [5.1]

TERMINAL STYLES (.032 [.81] THICK)

SCREW	QUICK CONNECT	SOLDER	P.C. PIN
#6-32 THD .25 [6.4]	Ø .08 [Ø 2.0] .25 [6.4]	Ø .11 [Ø 2.8] .25 [6.4]	.030 SQ. [.76 SQ.] .25 [6.4] .10 [2.5]

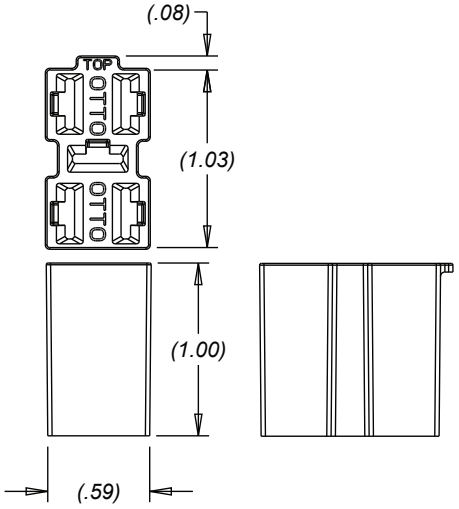
K1 and T71 Connector
Part Number Code

C405041 -	XX	XXXX

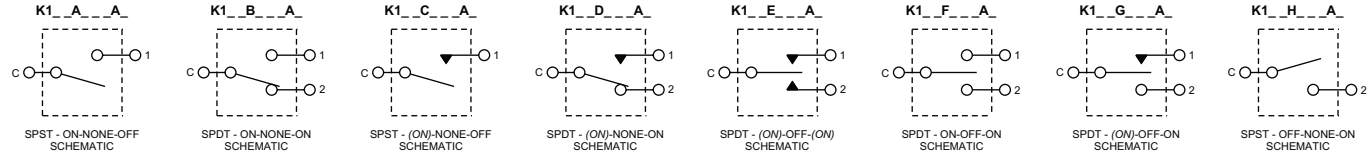
Connector Color
- **01.** Red
- **02.** Black
- **03.** Orange*
- **04.** Yellow*
- **05.** Green*
- **06.** Blue*
- **07.** Violet*
- **08.** Gray*
- **09.** White

* Contact Factory

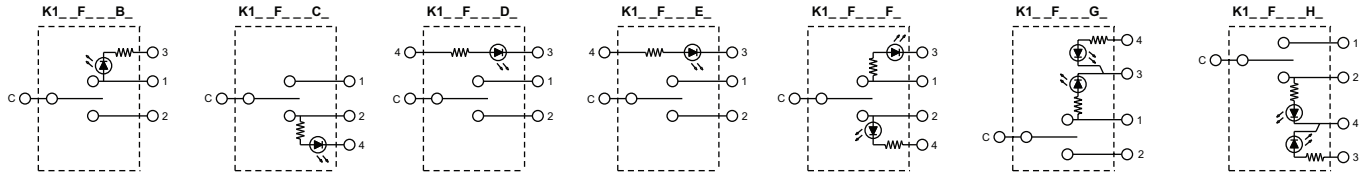
Packaging Quantity
- **0025** - 25 Pcs per Package
- **0050** - 50 Pcs per Package
- **0100** - 100 Pcs per Package



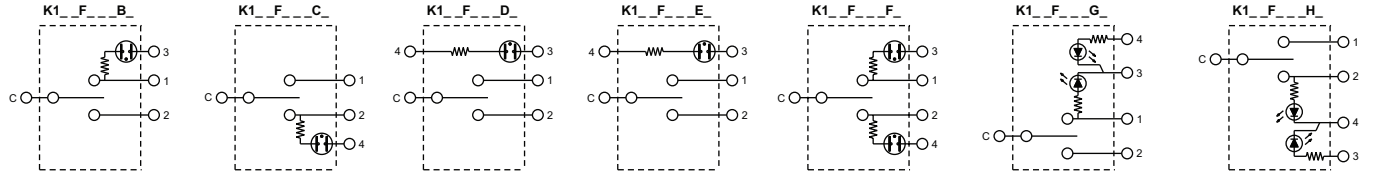
K1 Rocker Schematics



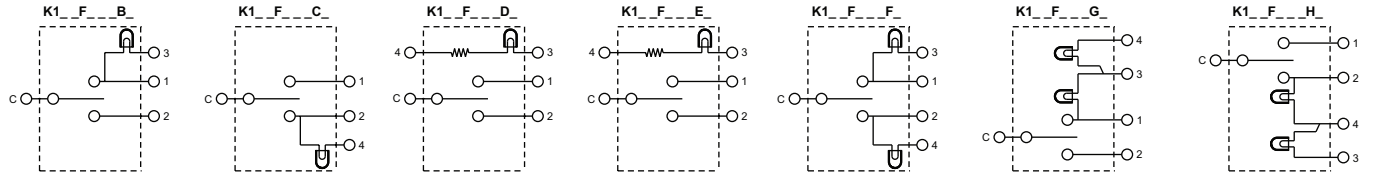
SPST - ON-NONE-OFF SCHEMATIC | SPDT - ON-NONE-ON SCHEMATIC | SPST - *(ON)*-NONE-OFF SCHEMATIC | SPDT - *(ON)*-NONE-ON SCHEMATIC | SPDT - *(ON)*-OFF-*(ON)* SCHEMATIC | SPDT - ON-OFF-ON SCHEMATIC | SPDT - *(ON)*-OFF-ON SCHEMATIC | SPST - OFF-NONE-ON SCHEMATIC



SPDT - ON-OFF-ON SCHEMATIC W/DEP LED IN "A" | SPDT - ON-OFF-ON SCHEMATIC W/DEP LED IN "C" | SPDT - ON-OFF-ON SCHEMATIC W/IND LED IN "A" | SPDT - ON-OFF-ON SCHEMATIC W/IND LED IN "C" | SPDT - ON-OFF-ON SCHEMATIC W/DEP LED IN "A" & "C" | SPDT - ON-OFF-ON SCHEMATIC W/DEP LED IN "A" & IND LED IN "C" | SPDT - ON-OFF-ON SCHEMATIC W/IND LED IN "A" & DEP LED IN "C"



SPDT - ON-OFF-ON SCHEMATIC W/DEP NEON BULB IN "A" | SPDT - ON-OFF-ON SCHEMATIC W/DEP NEON BULB IN "C" | SPDT - ON-OFF-ON SCHEMATIC W/IND NEON BULB IN "A" | SPDT - ON-OFF-ON SCHEMATIC W/IND NEON BULB IN "C" | SPDT - ON-OFF-ON SCHEMATIC W/DEP NEON BULB IN "A" & "C" | SPDT - ON-OFF-ON SCHEMATIC W/DEP NEON IN "A" & IND NEON IN "C" | SPDT - ON-OFF-ON SCHEMATIC W/IND NEON IN "A" & DEP NEON IN "C"



SPDT - ON-OFF-ON SCHEMATIC W/DEP BULB IN "A" | SPDT - ON-OFF-ON SCHEMATIC W/DEP BULB IN "C" | SPDT - ON-OFF-ON SCHEMATIC W/IND BULB IN "A" | SPDT - ON-OFF-ON SCHEMATIC W/IND BULB IN "C" | SPDT - ON-OFF-ON SCHEMATIC W/DEP BULB IN "A" & "C" | SPDT - ON-OFF-ON SCHEMATIC W/DEP BULB IN "A" & IND BULB IN "C" | SPDT - ON-OFF-ON SCHEMATIC W/IND BULB IN "A" & DEP BULB IN "C"

GENERAL SCHEMATIC INFORMATION

INDICATES MAINTAIN ACTION *(FIXED POSITION)*

INDICATES MOMENTARY ACTION *(AUTOMATIC RETURN POSITION)*

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.**