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

The K series rockers are rugged, high performance sealed switches designed for use under severe conditions found in marine, appliance, heavy equipment and industrial control applications. Sealed to IP68S with an optional panel gasket available.

The K1 series is offered in single pole configuration while the K2 series is available in 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 specified.

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

OTTO can provide custom colors upon request. Value-added assemblies with wire leads are also available. Please consult the factory for assistance.

# **Features:**

- Withstands direct water spray
- Watertight to IP68S
- 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
- RoHS/WEEE/Reach compliant





Single & Double Pole



		c Us				
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	1050Vrms except across I	light terminals				
Low Level	10mA @ 30n	nV				
Electrical Life:	See Rating Chart					
LIGHTING:						
Light Source	Rating					
Incandescent	(VDC) 6V, 12V, 24V					
Neon	(VAC) 125V, 250V					
LED	(VDC) 2V, 6V, 12V, 24V					
Mechanical Life:	100,000 cycles					
Seal:	IP68S					
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 low 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./Low Level
- E. Screw/Low Level
- F. Solder/Low Level
- G. PC Pin/Std.
- H. PC Pin/Low Level

# **Actuator Color/Style**

X

A. Red/Rocker

X

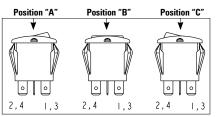
- B. Black/Rocker
- c. White/Rocker
- D. Red/Paddle
- E. Black/Paddle
- F. White/Paddle
- G. Red/Rocker Pinned
- H. Black/Rocker Pinned
- J. White/Rocker Pinned
- K. Red/Short Paddle Pinned L. Black/Short Paddle Pinned
- M. White/Short Paddle Pinned
- N. Red/Standard Paddle Pinned
- P. Black/Standard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

# X

## **Switch Action/Circuit**

	Position	Position	Position	Circuit			
	"A"	"B"	"C"				
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.	0FF	NONE	2-C	SPST			
NOTE: ( ) denotes momentary action.							

NOTE: ( ) denotes momentary action	١.



# **Light Type**

X

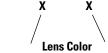
- A. No Light
- B. 6V Incandescent
- c. 12V Incandescent

**Part Number Code Continued Below** 

- 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

# **K1 PART NUMBER CODE** CONTINUED FROM ABOVE

## **K1** Continued



### Position "A" Position "C"

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

# **Light/Circuit Location** A. No Light

X



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











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





ed to terms 2 & 4

Independent Light 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.

# NOTES:

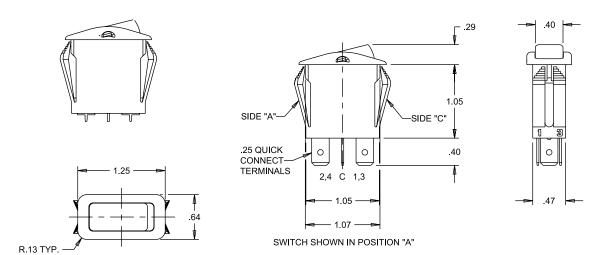
- No momentary switches with dependent lights.
- . Neon lamps only to be coded with clear or amber
- LED lenses must be clear or same color as LED.
- No dependent light in OFF position.
- All legends printed on actuators without lens(es) will be white except actuator codes C, F, J, M & R.
- · All legends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

# • K1 panel plugs available as shown on page 160.

X

# SEALED, ILLUMINATED **ROCKER SWIT**

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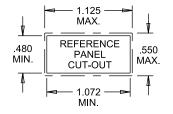


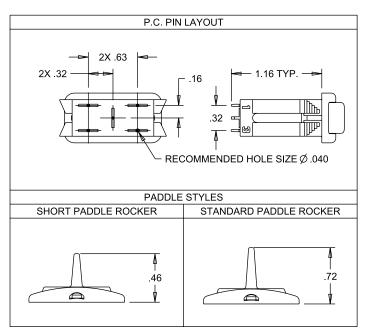
**MOUNTING HOLE:** 

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 PANEL OPENING: MIN. TYP. MAX.
WIDTH 480 .515 .550 WIDTH .480 .515 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			

# STANDARD LEGENDS PER SAE

SNAP-IN PANEL MOUNTING

# **Standard Legends Per SAE Specifications**

	STANDARD LEGENDS PER SAE SPECIFICATIONS							
A1	ţ	ANCHOR	K2	<b>a</b>	UNLOCK	P5	<b>F</b>	BILGE BLOWER
В1	- +	BATTERY	L1	<b>③</b>	LIGHT	R1	1	LIFT
B2	1	ELECTRIC POWER	L2	-\̈́C-	MASTER LIGHTING SWITCH	R2	<b>业</b>	LOWER
C1	*	AC/COOLING SYSTEMS	L3	D	HEADLIGHTS	R3	1	UP
C2	¥	DEHUMIDIFIER	L4		HEADLIGHTS-LOW / DIPPED BEAM	R4	ţ	DOWN
СЗ	<u>}}}</u>	HEATER/INTERIOR HEATING	L5	$\equiv 0$	HEADLIGHTS-HIGH / UPPER BEAM	R5	-	RIGHT
D1	<b>P</b>	WINDSHIELD DEFROSTER	L6	P≑	PARKING LIGHT	R6	+	LEFT
D2	<b>#</b>	REAR WINDOW DEFROSTER	L7	A	WORK LAMP	R7	FWD	FORWARD
D3		MIRROR DEFROSTER	L8	W	WORK LAMP	R8	REV	REVERSE
E1	O)	ENGINE/START	L9	深	INTERIOR DOME LIGHT	S1	<b>1</b>	RADIO
E2	$\Diamond$	ENGINE/STOP	M1	亞	BEACON	S2	13	MUTE
E3		ON/START	M2		HAZARD/POSITION LIGHTS	T1	4	FAST
E4	0	OFF/STOP	М3-	∌€	CLEARANCE LIGHTS	T2	4	SLOW
E5	ON	ON	M4	∌D	SIDE MARKER LIGHT	ТЗ	<u></u>	TRIM TAB / TRIMMING OPERATION
E6	OFF	OFF	M5	- <b>Ö</b> -	RUNNING LIGHTS (UNDER POWER)	T4	0	TRANSMISSION
E7	₩	ENGINE ELECTRIC PREHEAT	М6	- <b>∰</b> -	ANCHOR LIGHT	V1	88	VENTILATING / AC FAN
E8	<b>®</b>	ENGINE-GAS INJECTION	M7	\$/ *	RUNNING/ANCHOR LIGHTS	W1	P	WINDSHIELD WIPER
F1	和	FRONT FOG LIGHTS	M8	<b>P</b>	SEARCH LIGHT	W2	<b>(T)</b>	WINDSHIELD-WASHER
F2	()≩	REAR FOG LIGHTS	М9	<b>4</b>	LEFT TURN SIGNAL	W3	\$	WINDSHIELD-WASHER/WIPER
G1	周	FUEL	MA	<b>\$</b>	RIGHT TURN SIGNAL	W4	$\Box$	REAR WINDOW WIPER
H1	þ	HORN	P1	<b>\$</b>	BILGE PUMP #1	W5	4	REAR WINDOW-WASHER
H2	₽R	HORN REAR	P2	<b>₩</b> 2	BILGE PUMP #2	W6	\$	REAR WINDOW-WASHER/WIPER
K1	<b>@</b>	LOCK	P3	<b>\$</b>	BILGE PUMP #3	ZZ		NO LEGEND
			P4	Ø	BILGE PUMP			

For legends not shown, please consult an OTTO representative.

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