SEALED, ILLUMINATED ROCKER SWITCHES

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.

K1 Series
Single Pole

K2 Series
Single & Double Pole

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**

Standard Characteristics/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 light terminals	
Low Level	10mA @ 30mV	
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

SEALED, ILLUMINATED ROCKER SWITCHES

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

K1 PART NUMBER CODE

K1 - X X X X

Part Number Code Continued Below

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

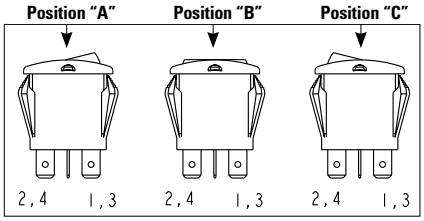
Actuator Color/Style

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

K1 PART NUMBER CODE CONTINUED FROM ABOVE

K1 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.
Independent 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**

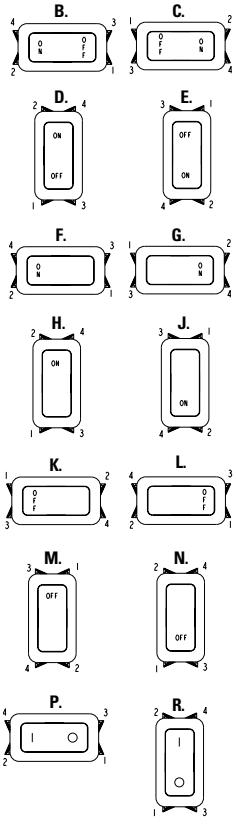
H.
Independent Light
at position "A"
Wired to terms **3** & 4
Dependent Light
ON in position "C"
Wired to terms **2** & 4

D = Dependent Light
I = Independent Light

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

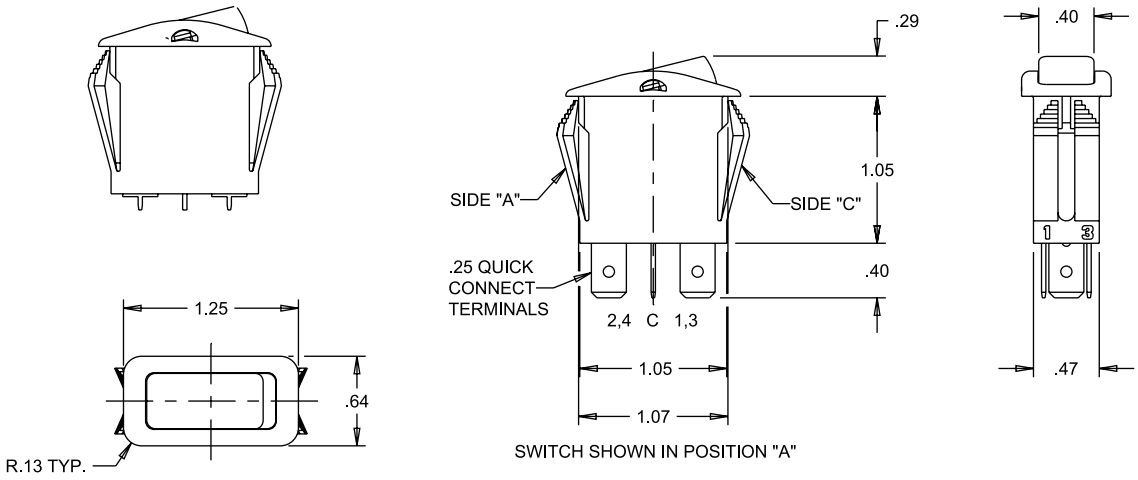


NOTES:
- No momentary switches with dependent lights.
- Neon lamps only to be coded with clear or amber lenses.
- LED lenses must be clear or same color as LED.
- No dependent light in OFF position.
- All legends printed on actuators without lens(es) will be white except actuator codes C, F, J, M & R.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

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

Specifications Subject To Change Without Notice

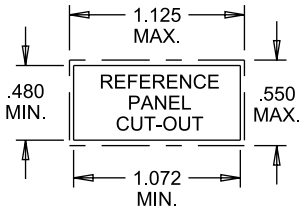
LOW COST, SNAP-IN ROCKER FOR WET & DUSTY ENVIRONMENTS



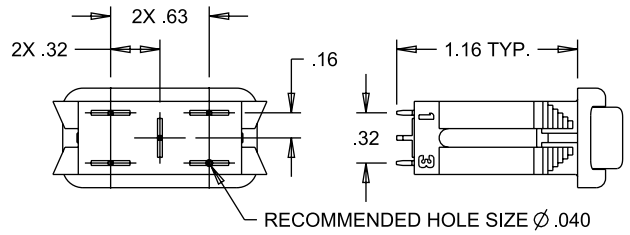
MOUNTING HOLE:
PANEL THICKNESS RANGE OF .025 - .105 A GASKET IS RECOMMENDED,
0.031" THICKNESS = GASKET P/N 807039-2
0.062" THICKNESS = GASKET P/N 807039-1

PANEL THICKNESS RANGE OF .105 - .187 W/O GASKET

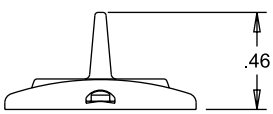
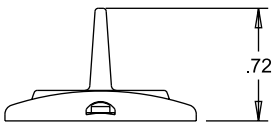
PANEL OPENING:	MIN.	TYP.	MAX.
WIDTH	.480	.515	.550
LENGTH	1.072	1.099	1.125



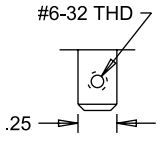
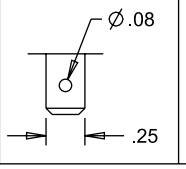
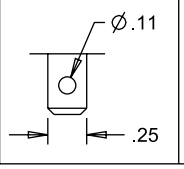
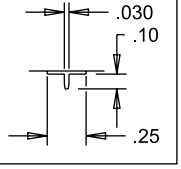
P.C. PIN LAYOUT



PADDLE STYLES

SHORT PADDLE ROCKER	STANDARD PADDLE ROCKER
	

TERMINAL STYLES (.032 THICK)

SCREW	QUICK CONNECT	SOLDER	P.C. PIN
			

STANDARD LEGENDS PER SAE

SNAP-IN PANEL MOUNTING

Standard Legends Per SAE Specifications

STANDARD LEGENDS PER SAE SPECIFICATIONS		
A1 ANCHOR	K2 UNLOCK	P5 BILGE BLOWER
B1 BATTERY	L1 LIGHT	R1 LIFT
B2 ELECTRIC POWER	L2 MASTER LIGHTING SWITCH	R2 LOWER
C1 AC/COOLING SYSTEMS	L3 HEADLIGHTS	R3 UP
C2 DEHUMIDIFIER	L4 HEADLIGHTS-LOW / DIPPED BEAM	R4 DOWN
C3 HEATER/INTERIOR HEATING	L5 HEADLIGHTS-HIGH / UPPER BEAM	R5 RIGHT
D1 WINDSHIELD DEFROSTER	L6 PARKING LIGHT	R6 LEFT
D2 REAR WINDOW DEFROSTER	L7 WORK LAMP	R7 FWD FORWARD
D3 MIRROR DEFROSTER	L8 WORK LAMP	R8 REV REVERSE
E1 ENGINE/START	L9 INTERIOR DOME LIGHT	S1 RADIO
E2 ENGINE/STOP	M1 BEACON	S2 MUTE
E3 ON/START	M2 HAZARD/POSITION LIGHTS	T1 FAST
E4 OFF/STOP	M3 CLEARANCE LIGHTS	T2 SLOW
E5 ON ON	M4 SIDE MARKER LIGHT	T3 TRIM TAB / TRIMMING OPERATION
E6 OFF OFF	M5 RUNNING LIGHTS (UNDER POWER)	T4 TRANSMISSION
E7 ENGINE ELECTRIC PREHEAT	M6 ANCHOR LIGHT	V1 VENTILATING / AC FAN
E8 ENGINE-GAS INJECTION	M7 RUNNING/ANCHOR LIGHTS	W1 WINDSHIELD WIPER
F1 FRONT FOG LIGHTS	M8 SEARCH LIGHT	W2 WINDSHIELD-WASHER
F2 REAR FOG LIGHTS	M9 LEFT TURN SIGNAL	W3 WINDSHIELD-WASHER/WIPER
G1 FUEL	MA RIGHT TURN SIGNAL	W4 REAR WINDOW WIPER
H1 HORN	P1 BILGE PUMP #1	W5 REAR WINDOW-WASHER
H2 HORN REAR	P2 BILGE PUMP #2	W6 REAR WINDOW-WASHER/WIPER
K1 LOCK	P3 BILGE PUMP #3	ZZ NO LEGEND
	P4 BILGE PUMP	

For legends not shown, please consult an OTTO representative.

Specifications Subject To Change Without Notice

Mouser Electronics

Authorized Distributor

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

OTTO:

K2ABMHCADA K2AABAAAAA K2ACAAAAAA K2AABDBCFA K2ABNFDEFA K2CBHFDABA K2ABLNEADA K2ABNCBCGA K2ABNCBDGA K2ABNCCCFA K2ABNDDDFA K2ABNEDEFA K2ABHLCADA K2ABHTEABA K2ABJFEABA K2ABJKEABA K2ABJQEADA K2ABJRBABA K2AARAAAAA K2ABACCABD K2ABCPCADA K2ABFCBBGA K2ABFNBBJA K2ABFSCCFA K2CBFAAAAA K2CBHAAAAP K2CBHEEABA K2CBJNBABA K2CCPAAAAA K2AAJNBADA K2ACAAAAAR K2BBHAAAAD K2BBNDBABA K2BEEAAAAA K2CAASCABL K2CBAPCABA K2CBMQEADA K2FBJAAAAA K2FEEQEEJA K2ABNPEEFA K2ABSQEEHA K2CAKAAAAP K2CBHAAAAA K2CBHAAAAR K2CBHFDADP K2CBHNEABA K2CBJLEEFA K2DCBAAAAA K2CBBAAAAR K2CBHEDABN K2CBNSCCFA K2BBNDCDFA K2BCCAAAAA K2ABKHCADA K2ACHEBABA K2ACHPCABA K2ADEAAAAA K2BBEAAAAA K2DBAAAAAA K2ABHFDABA K2ABHSCABA K2ABJTDADA K2ABKAAAAA K2ABLAAAAA K2ABMKEADA K2ABJCCDGA K2CCAEEADL K2AANAAAAA K2ABBAAAAR K2ABEPCADA K2ABHDCADA K2ABAFDABA K2ABCNEADA K2ABEQEEFA K2ABHPCADA K2ABHPCCDD K2ABHSEADA K2AAJAAAAR K2AAAQDABA K2AAHJDABA K2AAJCBADA K2AAMAAAAA K2ABAEBABA K2BBLTDADA K2BBMPCADA K2CAACBABB K2AAJAAAAD K2ABHPEABA K2ABHQAEEA K2ABHSCADR K2ABJCBDFA K2ABNCBDFA K2ACEAAAAA K2CBBLCABA K2CBHEDABA K2ABANBABA K2ABEFEEJB K2ABHAAAAC K2CBPAAAAA K2CEBPEEFA