

## ATTRACTIVE AND RUGGED FOR WET AND DUSTY ENVIRONMENTS

The OTTO K5 series is a quality, precision switch designed to comply with standards established for appliance, marine (ignition protection) and off-road vehicles along with other demanding applications where rugged rocker switches are required.

K5 series sealed rocker switches snap into industry-standard panel cutouts. Choose illuminated and printed legends, thru-panel drain option, and switching compatibility from low level to 20 amps.

The K5 series offers a choice of LED, incandescent and neon illumination. Legends can be stamped onto a non-illuminated button, stamped onto an illuminated lens, or laser etched into the lens and backlit.

Available in standard and low level contact ratings, the K5 rockers will fit a wide range of applications. Expect a minimum of 25,000 cycles at a full rated load of 20 amps resistive or 15 amps inductive. 100,000 cycles are possible at low level loads. A full complement of switch operation is available including momentary and maintained action in 2- or 3-position switches in SPST, SPDT, SPTT, DPST, and DPDT circuit arrangements.

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

## Quality Features:

- **Submersible, sealed watertight per IP68**
- **Snap-in panel mounting into industry standard panel cutout**
- **Optional panel seal gasket**
- **LED, neon and incandescent lighting**
- **.250" Q.C. terminals**
- **Optional one-piece connector**
- **Optional terminal barriers**
- **Low level to 20 amp switch**
- **Configurable Single Pole Triple Throw (SPTT) with external jumpers**



### Standard Characteristics/Ratings:

#### OPERATIONAL:

<b>Mechanical Life:</b>	100,000 cycles, minimum
<b>Seal:</b>	Watertight, submersible to IP68 to 1 meter
<b>Operating Temperature Range:</b>	-40°C to +85°C
<b>Case:</b>	Thermoplastic.
<b>Button:</b>	Thermoplastic (with or without)
<b>Mounting:</b>	Snap-In from front into industry standard panel cutout
<b>Contacts:</b>	Silver Alloy. Gold flash for low level
<b>Terminals:</b>	Brass 1/4" Q.C. Standard
<b>Light Source:</b>	6V, 12V, 24V Incandescent; 125V, 250V Neon; 2V, 6V, 12V, 24V red, green, amber LED

#### ELECTRICAL:

LOAD Type	CURRENT RATING 12V & 18V	CURRENT RATING 125VAC	LIFE (Min.)
Resistive	20A	16A	25,000 cycles
Inductive	15A	15A	25,000 cycles
Lamp	5A	5A	25,000 cycles
<b>Motor Load:</b>	1/2 HP at 110 VAC		
<b>Dielectric Withstand:</b>	1050 Vrms except across light terminal		

## SEALED, ILLUMINATED ROCKER SWITCHES

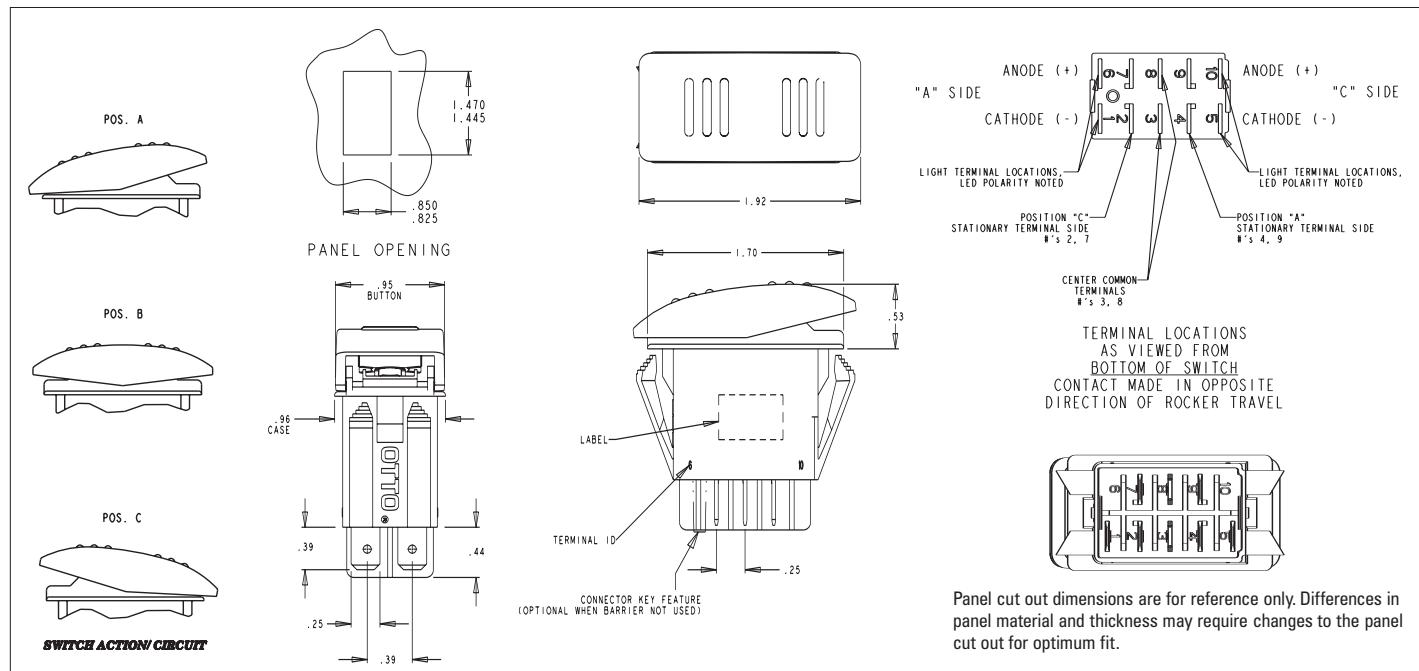
SNAP-IN PANEL MOUNTING

## 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	M10 	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.

## SNAP-IN PANEL MOUNTING



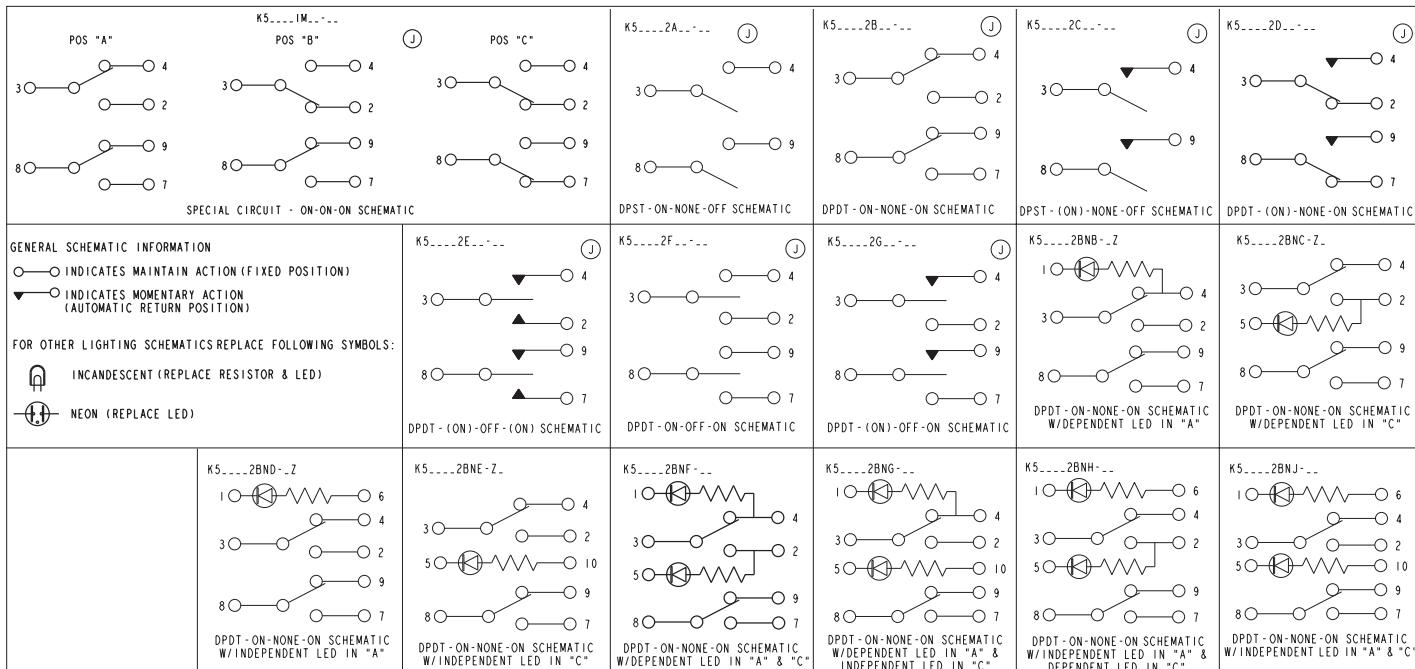
Panel cut out dimensions are for reference only. Differences in panel material and thickness may require changes to the panel cut out for optimum fit.

## K5 SERIES PART

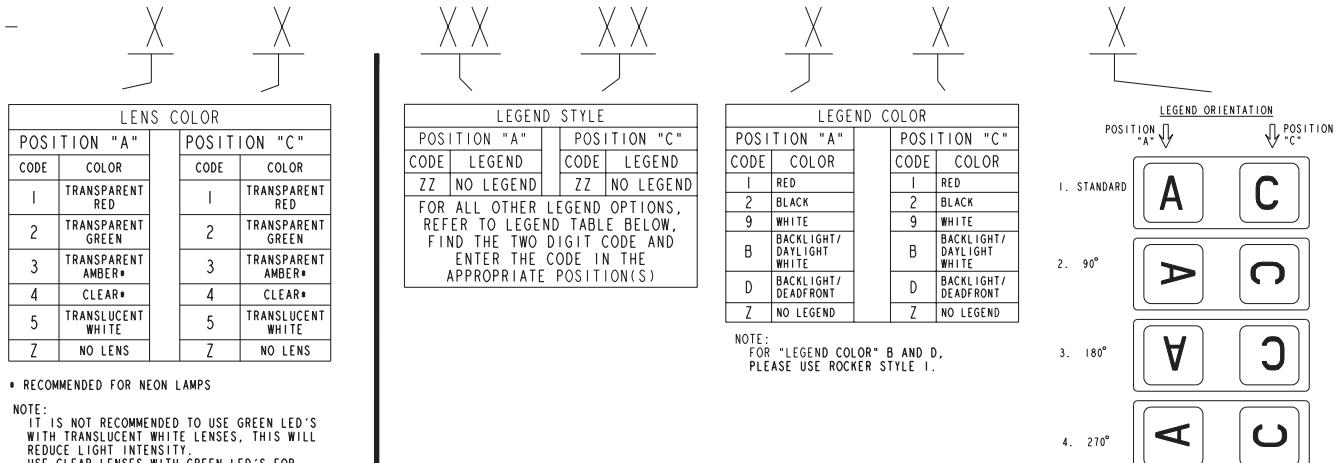
K5		X		X		X		XX		X		X	
BASE	CONNECTOR KEYING PIN ONLY	TERM. BARRIERS ONLY	OPTION	SWITCH RATING	STANDARD RATING	LOW LEVEL RATING	OPTION	TERMINAL PLATING	SILVER PLATING*	GOLD PLATING	OR NO PLATING	*SILVER PLATE FOR SOLDERING	
A	-WITH KEYING PIN ONLY	-STANDARD RATING	-SILVER PLATING										
B	-WITHOUT BARRIERS OR PIN	-STANDARD RATING	-SILVER PLATING										
C	-WITH TERMINAL BARRIERS ONLY	-STANDARD RATING	-SILVER PLATING										
D	-WITH KEYING PIN ONLY	LOW LEVEL RATING	-GOLD PLATING										
E	-WITHOUT BARRIERS OR PIN	LOW LEVEL RATING	-GOLD PLATING										
F	-WITH TERMINAL BARRIERS ONLY	LOW LEVEL RATING	-GOLD PLATING										
G	-WITH KEYING PIN ONLY	STANDARD RATING	-NO PLATING										
H	-WITHOUT BARRIERS OR PIN	STANDARD RATING	-NO PLATING										
J	-WITH TERMINAL BARRIERS ONLY	STANDARD RATING	-NO PLATING										
NOTE: SOFT TOUCH ROCKERS REQUIRE SAME COLOR LENSES/LIT BARS FOR BOTH POSITIONS.													
ROCKER FEATURES													
POSITION "A"		POSITION "C"		POSITION "A"		POSITION "B"		POSITION "C"		CIRCUIT		SWITCH ACTION/CIRCUIT	
CODE	OPTION	CODE	OPTION	CODE	OPTION	CODE	OPTION	CODE	OPTION	CODE	OPTION	CODE	OPTION
I	NO FEATURE	I	NO FEATURE	1A	3-4	1A	3-4	1B	3-4	1B	3-4	SPST	SPST
2	LENS	2	LENS	2A	3-4 8-9	2A	3-4 8-9	2B	3-4 8-9	2B	3-4 8-9	DPST	DPST
3	RAISED BARS	3	RAISED BARS	3	RAISED BARS	3	RAISED BARS	3	RAISED BARS	3	RAISED BARS	SPDT	SPDT
4	RAISED LIT BARS	4	RAISED LIT BARS	4	RAISED LIT BARS	4	RAISED LIT BARS	4	RAISED LIT BARS	4	RAISED LIT BARS	DPDT	DPDT
NOTE: (*) DENOTES MOMENTARY ACTION.													
LIGHT SOURCE TYPE													
CODE	OPTION	LIGHT CIRCUIT											
A	NO ILLUMINATION	CODE	CIRCUIT	TERMINAL CONNECTIONS									
B	6V INCANDESCENT	A	NONE	NONE									
C	12V INCANDESCENT	B	DEP. IN "A"	1(-) & 4(+)									
D	24V INCANDESCENT	C	DEP. IN "C"	2(+) & 5(-)									
E	125VAC NEON	D	IND. IN "A"	1(-) & 6(+)									
F	250VAC NEON	E	IND. IN "C"	5(-) & 10(+)									
G	2V RED LED	F	DEP. IN "A"	1(-) & 4(+)									
H	2V GREEN LED	G	DEP. IN "C"	2(+) & 5(-)									
J	2V AMBER LED	I	IND. IN "A"	1(-) & 4(+)									
K	6V RED LED	M	IND. IN "C"	5(-) & 10(+)									
L	6V GREEN LED	N	12V RED LED	1(-) & 6(+)									
M	6V AMBER LED	P	12V GREEN LED	2(+) & 5(-)									
N	12V RED LED	Q	12V AMBER LED	IND. IN "A"									
P	12V GREEN LED	R	24V RED LED	IND. IN "C"									
Q	12V AMBER LED	S	24V GREEN LED	1(-) & 6(+)									
R	24V RED LED	T	24V AMBER LED	5(-) & 10(+)									
S	24V GREEN LED	NOTE: POLARITY ONLY APPLIES TO LED CIRCUITS											
T	24V AMBER LED												
SPECIAL CIRCUITS													
CODE	POSITION "A"	POSITION "B"	POSITION "C"	SPECIAL CIRCUITS									
IH	3-4 8-9	3-2 8-9	OFF	ON/ON/OFF									
IJ	3-4 8-9	3-2 8-9	NONE	ON/ON/NONE									
IK	(3-4) (8-9)	3-2 8-9	OFF	(ON)/ON/OFF									
IL	(3-4) (8-9)	3-2 8-9	NONE	(ON)/ON/NONE									
IM	3-4 8-9	3-2 7-8	3-2 7-8	ON/ON/ON									
IN	(3-4) (8-9)	3-2 8-9	3-2 7-8	(ON)/ON/ON									
IP	(3-4) (8-9)	3-2 8-9	(3-2) (8-7)	(ON)/ON/(ON)									
2R	3-4 8-9	OFF 8-9	OFF OFF	ON/OFF/OFF ON/ON/OFF									
2S	(3-4) (8-9)	OFF 8-9	OFF OFF	(ON)/OFF/OFF ON/ON/OFF									

## SEALED, ILLUMINATED ROCKER SWITCHES

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## NUMBERING CODE



- RECOMMENDED FOR NEON LAMPS

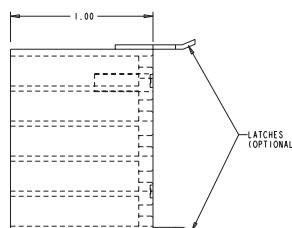
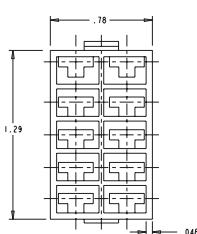
NOTE:  
IT IS NOT RECOMMENDED TO USE GREEN LED'S WITH TRANSLUCENT WHITE LENSES. THIS WILL REDUCE LIGHT INTENSITY.  
USE CLEAR LENSES WITH GREEN LED'S FOR MAXIMUM LIGHT INTENSITY.

STOP HERE FOR LIGHTED SWITCHES WITHOUT LEGENDS

EXAMPLE: K5AB331FNH-44

STOP HERE FOR UNLIGHTED SWITCHES WITHOUT LEGENDS

EXAMPLE: K5AA331BAA



## K3, K5, R2 Connector

P/N 801775-2A without latches  
P/N 801775-2B with latches

## Panel Seal Gasket

P/N 807109

Order separately for use with switches without drain holes.