

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:

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

ELECTRICAL:

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

SEALED, ILLUMINATED ROCKER SWITCHES

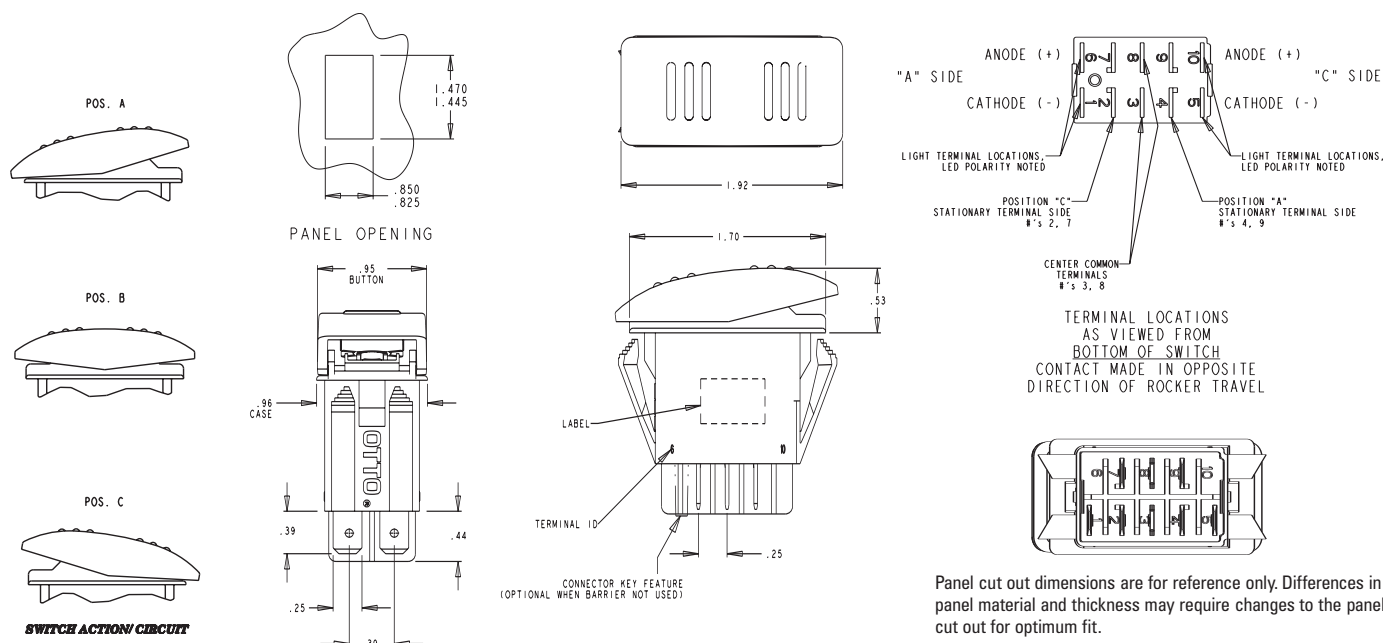
SNAP-IN PANEL MOUNTING

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	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.

SNAP-IN PANEL MOUNTING



K5 SERIES PART



BASE OPTION { CONNECTOR KEYING PIN ONLY
TERM. BARRIERS ONLY
OR WITHOUT EITHER

SWITCH RATING { STANDARD RATING
LOW LEVEL RATING

TERMINAL PLATING { SILVER PLATING*
GOLD PLATING
OR NO PLATING

*SILVER PLATE FOR SOLDERING

CODE	OPTIONS
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

ROCKER FEATURES					
POSITION "A"			POSITION "C"		
CODE	OPTION		CODE	OPTION	
1	NO FEATURE		1	NO FEATURE	
2	LENS		2	LENS	
3	RAISED BARS		3	RAISED BARS	
4	RAISED LIT BARS		4	RAISED LIT BARS	

NOTE:
SOFT TOUCH ROCKERS REQUIRE SAME COLOR
LENSES/LIT BARS FOR BOTH POSITIONS.

ROCKER COLOR/STYLE	
CODE	OPTIONS
A	BLACK PLASTIC ROCKER
B	BLACK "SOFT TOUCH" ROCKER
C	RED PLASTIC ROCKER
D	RED "SOFT TOUCH" ROCKER
E	WHITE PLASTIC ROCKER
F	WHITE "SOFT TOUCH" ROCKER
H	GREEN PLASTIC ROCKER
J	ORANGE PLASTIC ROCKER
K	BLUE PLASTIC ROCKER
L	GRAY "SOFT TOUCH" ROCKER
M	GRAY PLASTIC ROCKER

SWITCH ACTION/CIRCUIT				
CODE	POSITION "A"	POSITION "B"	POSITION "C"	CIRCUIT
1A	3-4	NONE	OFF	SPST
2A	3-4 8-9	NONE	OFF	DPST
1B	3-4	NONE	3&2	SPDT
2B	3-4 8-9	NONE	3-2 8-7	DPDT
1C	(3-4)	NONE	OFF	SPST
2C	(3-4) (8-9)	NONE	OFF	DPST
1D	(3-4)	NONE	3-2	SPDT
2D	(3-4) (8-9)	NONE	3-2 8-7	DPDT
1E	(3-4)	OFF	(3-2)	SPDT
2E	(3-4) (8-9)	OFF	(3-2) (8-7)	DPDT
1F	3-4	OFF	3-2	SPDT
2F	3-4 8-9	OFF	3-2 8-7	DPDT
1G	(3-4)	OFF	3-2	SPDT
2G	(3-4) (8-9)	OFF	3-2 8-7	DPDT

NOTE:
() DENOTES MOMENTARY ACTION.

SPECIAL CIRCUITS				
CODE	POSITION "A"	POSITION "B"	POSITION "C"	SPECIAL CIRCUITS
I H	3-4 8-9	3-2 8-9	OFF	ON/ON/OFF
I J	3-4 8-9	3-2 8-9	NONE	ON/ON/NONE
I K	(13-4) (8-9)	3-2 8-9	OFF	(ON)/ON/OFF
I L	(13-4) (8-9)	3-2 8-9	NONE	(ON)/ON/NONE
I M	3-4 8-9	3-2 8-9	3-2 7-8	ON/ON/ON
I N	(13-4) (8-9)	3-2 8-9	3-2 7-8	(ON)/ON/ON
I P	(13-4) (8-9)	3-2 8-9	(13-2) (8-7)	(ON)/ON/(ON)
2R	3-4 8-9	OFF 8-9	OFF OFF	ON/OFF/OFF
2S	(13-4) 8-9	OFF 8-9	OFF OFF	(ON)/OFF/OFF

LIGHT SOURCE TYPE	
CODE	OPTION
A	NO ILLUMINATION
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

LIGHT CIRCUIT		
CODE	CIRCUIT	TERMINAL CONNECTIONS
A	NONE	NONE
B	DEP. IN "A"	1(-) & 4(+)
C	DEP. IN "C"	2(+)& 5(-)
D	IND. IN "A"	1(-) & 6(+)
E	IND. IN "C"	5(-) & 10(+)
F	DEP. IN "A" DEP. IN "C"	1(-) & 4(+) 2(+)& 5(-)
G	DEP. IN "A" IND. IN "C"	1(-) & 4(+) 5(-) & 10(+)
H	DEP. IN "A" DEP. IN "C"	1(-) & 5(-) 2(+)& 5(-)
J	IND. IN "A" IND. IN "C"	1(-) & 6(+) 5(-) & 10(+)

NOTE:
POLARITY ONLY APPLIES TO LED
CIRCUITS

K5
SEALED
ROCKERS

ROCKER SWITCHES



LEGEND ORIENTATION

POSITION "A" ↓	POSITION "C" ↓
1. STANDARD A C	
2. 90° A C	
3. 180° A C	
4. 270° A C	

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