ATTRACTIVE & RUGGED FOR WET & 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 up 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 mechanical. 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.

Features:

- Sealed watertight per IP68S
- Snap-in panel mounting into industry standard panel cutout
- Optional panel seal gasket
- LED, neon & incandescent lighting
- 0.250" Quick Connect terminals
- Optional one-piece connector
- Optional terminal barriers
- Low level up to 20 amp switch
- Configurable Single Pole Triple Throw (SPTT) with external jumpers
- Soft Touch rocker style available
- RoHS & WEEE compliant



ELECTRICAL RATINGS:					
Load	Sea Level @ 28VDC, 60/400Hz	Sea Level @ 115VAC, 60/400Hz			
Resistive	20A	16A			
Inductive	15A	15A			
Lamp	5A	5A			
Motor	0.5HP @ 110VAC				
DWV	1050Vrms except across light terminals				
Low Level	10mA @ 30mV				
Electrical Life:	25,000 cycles				
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:	-40°C to +85°C				
MATERIALS:					
Case:	Thermoplastic				
Button:	Thermoplastic				
Terminals/Contact:	Brass, silver alloy with silver plate, gold flash for low level				
Terminal Hardware:	K5 series recommended AMP 60253-2 for 12-16 AV AMP 42100-2 for 14-18 AV	VG			
Mounting Hardware:	None provided				

SNAP-IN PANEL MOUNTING

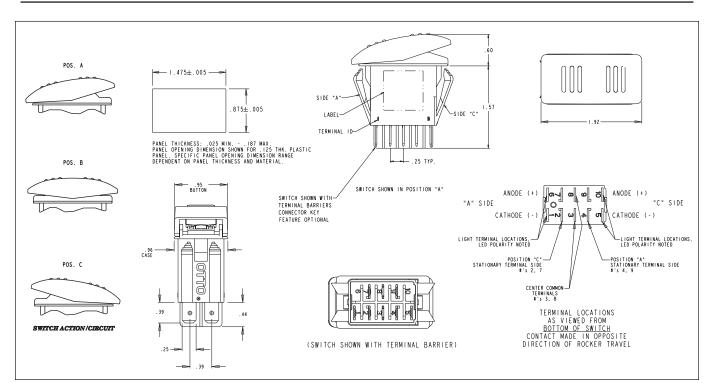
Standard Legends Per SAE Specifications

AI J	ANCHOR	К2 🕡	8	UNLOCK	Pt	6	券 BILGE BLOWER
B 📮 🕈	BATTERY	LI 🤅	<u>)</u>	LIGHT	RI	Û	LIFT
B2 🖧 E	LECTRIC POWER	L2 -	 М/	ASTER LIGHTING SWI	TCH R2	₽ N	LOWER
CI 🏠 AC/	COOLING SYSTEMS	L3		HEADLIGHTS	R3	Ŷ	UP
C2 🏠	DEHUMIDIFIER	L4	Ð	HEADLIGHTS-LOW/ DIPPED BEAM	R 4	. ↓	DOWN
C3 💥 HEATER	R/INTERIOR HEATING	L5	D	HEADLIGHTS-HIGH/ UPPER BEAM	RS) ľ	> RIGHT
DI 👾 WIND	SHIELD DEFROSTER	L6 F		PARKING LIGHT	Re	\langle	⇒ LEFT
D2 D2 REAR	WINDOW DEFROSTER	L7 /		WORK LAMP	R	FW	D FORWARD
D3 🕅 MI	RROR DEFROSTER	L8 (A	WORK LAMP	R	REN	/ REVERSE
EI 🚫	ENGINE/START	L9 7	深	INTERIOR DOME LIG	HT SI	50	RADIO
E2 🚫	ENGINE/STOP	MI 🛓	Ĩ	BEACON	S 2	F) MUTE
E 3	ON/START	M2 _	А н	AZARD/POSITION LIG	HTS TI	20	ර FAST
E 4	OFF/STOP	мз∋	0€	CLEARENCE LIGHTS	T2	5	SLOW
E5 ON	ON	M4 -	₽	SIDE MARKER LIGH	T T S	Ĵ,	TRIM TAB/
E6 OFF	OF F	М5 -	<u>Ö</u>	RUNNING LIGHTS (UNDER POWER)	Τ		TRANSMISSION
E7 😿 ENGINE	ELECTRIC PREHEAT	M6 -)	<u>.</u> -	ANCHOR LIGHT	VI	8£	VENTILATING/AC FAN
E8 💩 ENGI	NE-GAS INJECTION	M7 🦻	R	UNNING/ANCHOR LIG	HTS WI	Þ	> WINDSHIELD WIPER
FI 🛱 D FR	ONT FOG LIGHTS	M8 #	P	SEARCH LIGHT	W2	$\widehat{\Box}$	WINDSHIELD-WASHER
F2 ()≹ RE	AR FOG LIGHTS	М9	þ	LEFT TURN SIGNAL	WB	¢	WINDSHIELD-WASHER/WIPER
GI 🚯	FUEL	MA (Ŕ	RIGHT TURN SIGNA	L WZ	Ţ,) REAR WINDOW WIPER
HI D	HORN	PI 🕅		BILGE PUMP #I	WS	Ű) REAR WINDOW-WASHER
H2 SR	HORN REAR	P2 🕅	₿	BILGE PUMP #2	We	ŐÕ	REAR WINDOW-WASHER/WIPER
K I	LOCK	P3 🕅	3	BILGE PUMP #3	ZZ		NO LEGEND
		P4 🕅		BILGE PUMP			

For legends not shown, please consult an OTTO representative.

SEALED, ILLUMINATED ROCKER SWITCHES

SNAP-IN PANEL MOUNTING



K5 SERIES

B. Without Barriers or Pin D. Red/Soft Touch Rocker 2. Lens 2. Lens 2A. 3-4/8-9 None OFF DPST D. 24V Incandescent B. 24V Incandescent Standard Rating Silver Plate F. White/Soft Touch Rocker 3. Raised Lit Bars 3. Raised Lit Bars 4. Raised Lit Bars 4. Raised Lit Bars 2B. 3-4/8-9 None OFF DPST D. 24V Incandescent B. Standard Rating Silver Plate F. White/Soft Touch Rocker 4. Raised Lit Bars 4. Raised Lit Bars 2B. 3-4/8-9 None 3-2/8-7 DPDT F. 250VAC Neon D.	
A. With Keying Pin Only Standard Rating A. Black/Plastic Rocker Position Position Position Circuit A. No Illumination Standard Rating B. Black/Soft Touch Rocker 1. No Feature 1. No Feature 1A. 3:4 None OFF SPST C. 12V Incandescent B. 6V Incandescent A. No Illumination B. Without Barriers D. Red/Soft Touch Rocker 2. Lens 2. Lens 2. Lens 2. Lens 3:4/8-9 None OFF DPST D. 24V Incandescent B. 10:24V Inca	
A. With Keying Pin Only Standard Rating A. Black/Plastic Rocker Position Position Position Circuit A. No Illumination Standard Rating B. Black/Soft Touch Rocker 1. No Feature 1. No Feature 1A. 3:4 None OFF SPST C. 12V Incandescent B. 6V Incandescent A. No Illumination B. Without Barriers D. Red/Soft Touch Rocker 2. Lens 2. Lens 2. Lens 2. Lens 3:4/8-9 None OFF DPST D. 24V Incandescent B. 10:24V Inca	
Standard Rating Silver Plate B. Black/Soft Touch Rocker "A" "C" "A" "B" "C" B. 6V Incandescent Silver Plate C. Red/Plastic Rocker 1. No Feature 1. No Feature 1A. 3-4 None OFF SPST C. 12V Incandescent A. B. Without Barriers or Pin D. Red/Soft Touch Rocker 2. Lens 2. Lens 2. Lens 2. Lens 2. Lens D. 24V Incandescent B. Standard Rating Silver Plate F. White/Plastic Rocker 3. Raised Bars 3. Raised Bars 1B. 3-4 None OFF DPST D. 24V Incandescent B. Standard Rating Silver Plate F. White/Soft Touch Rocker 4. Raised Lit Bars 4. Raised Lit Bars 2B. 3-4/8-9 None 3-2/8-7 DPDT F. 250VAC Neon C.	Light Circuit
Barriers Only *Additional colors available, contact factory. 1D. (3-4) None 3-2 SPDT J. 2V Amber LED Standard Rating Silver Plate contact factory. NOTE: Soft Touch rockers require same color lenses/ 2D. (3-4)/(8-9) None 3-2/8-7 DPDT K. 6V Red LED G.	Circuit Terminal Connections L None None Dep. in "A" 1(-) & 4(+) Dep. in "C" 2(+) & 5(-) Ind. in "A" 1(-) & 6(+) Ind. in "C" 2(+) & 5(-) Dep. in "C" 2(+) & 5(-) Ind. in "C" 5(-) & 10(+) I. Ind. in "C" 5(-) & 10(+) I. Ind. in "C" 2(+) & 5(-)
Gold Plate 2F. 3-4/8-9 OFF 3-2/8-7 DPDT P. 12V Green LED J. E. Without Barriers 1G. (3-4) OFF 3-2 SPDT 0. 12V Amber LED or Pin 2G. (3-4)/(8-9) OFF 3-2/8-7 DPDT R. 24V Red LED Low Level Rating S. 24V Green LED N T. 24V Amber LED N Gold Plate T. 24V Amber LED T. 24V Amber LED N	. Ind. in "A" 1(-) & 6(+) Ind. in "C" 5(-) & 10(+) NOTE: Polarity only applies o LED circuits.
F. With Terminal Special Circuits Barriers Only Position Position Special Low Level Rating "A" "B" "C" Circuits Gold Plate 1H. 3-4/8-9 -32/8-9 OFF	
G. With Keying Pin Only J. 3-4/8-9 3-2/8-9 None ON/ON/None Standard Rating IK. (3-4)/(8-9) 3-2/8-9 OFF (0N)/ON/OFF No Plate IL. (3-4)/(8-9) 3-2/8-9 None (0N)/ON/None	
H. Without Barrier IM. 3-4/8-9 3-2/8-9 3-2/8-8 ON/ON/ON or Pin IN. (3-4)/(8-9) 3-2/8-9 3-2/7-8 (ON)/ON/ON Standard Rating IP. (3-4)/(8-9) 3-2/8-9 (3-2)/(8-7) (ON)/ON/ON No Plate IP. (3-4)/(8-9) 3-2/8-9 (3-2)/(8-7) (ON)/OFF/OFF J. With Terminal OFF/0-9 OFF/0-9 OFF/0-9 OFF/0-FF ON/ON/OFF	
Barriers Only 2S. (3-4)/8-9 OFF/0FF (0N)/OFF/0FF Standard Rating 0N/ON/OFF No Plate NOTE: () denotes momentary action.	

NOTE: All code combinations are not feasible. Consult factory for product availability.

SEALED, ILLUMINATED ROCKER SWITCHES

K5____IM__--_. K5....2A.... К5....2В..-. K5____2C__-К5____2D__-POS "A" POS "B" POS "C" -04 -0 4 \bigcirc -0 4 0 -0 4 0--0 0--0 4 -0 30 30-30 -0. 30 -0 2 --0-0 2 \sim -0 9 -0 9 -0 9 -0 9 -0 9 0 0 -0 9 \cap 80 80 80-80 0--01 80 0--01 -01 \bigcirc -0 : DPST-ON-NONE-OFF SCHEMATIC DPDT - ON - NONE - ON SCHEMATIC DPST - (ON) - NONE - OFF SCHEMATIC DPDT - (ON) - NONE - ON SCHEMATIC SPECIAL CIRCUIT - ON-ON-ON SCHEMATIC K5____2G__-._ К5____2BNC-Z_ К5....2Е...-.. K5____2F__-K5____2BNB-_Z GENERAL SCHEMATIC INFORMATION -0 4 O-O INDICATES MAINTAIN ACTION (FIXED POSITION) $|0-R| \rightarrow \infty$ 0--0 4 -0 O INDICATES MOMENTARY ACTION (AUTOMATIC RETURN POSITION) • 30 0--0 2 \sim -0 2 -0 2 50-R-VVV 0--0 2 0----0 2 FOR OTHER LIGHTING SCHEMATICS REPLACE -0 9 0--0 9 -0 9 -0 9 -0 9 FOLLOWING SYMBOLS: T 80 80 80 -0 0--01 0— -0 1 മ INCANDESCENT (REPLACE RESISTOR & LED) 0-01 -01 0 - 0 1DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "A" DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "C" NEON (REPLACE LED) DPDT - (ON) - OFF - (ON) SCHEMATIC DPDT - ON - OFF - ON SCHEMATIC DPDT - (ON) - OFF - ON SCHEMATIC K5____2BND-_Z K5____2BNG-_ K5 2BNH-K5____2BNJ-_ K5____2BNE-Z_ K5____2BNF-_ 10-R-VVV-06 10-0-6 10-R-VV--0 4 0 0-04 -04 -0 4 0--0 4 0 0— -0 2 $-\alpha$ 30--0 30-· 0-0--0 8 -O 2 -0 ́ О--0 2 0- \cap -0 2 -0 2 50-**R**-///--0 10 50-**R**-VVV-50-R-VV-50-R-///--0 10 50-**O**-VVV -0 10 -0 9 0--0 9 -0 9 -0 9 -0 9 C-O--0 0 -0 1 80--01 0 -0 1 ́ О--01 80 0--01 80 0 · O--0 1 DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "A" & INDEPENDENT LED IN "C" DPDT-ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "A" & DEPENDENT LED IN "C" DPDT-ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "A" DPDT-ON-NONE-ON SCHEMATIC W/INDEPENDENTLED IN "A" & "C DPDT-ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "C" DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "A" & "C

ATTRACTIVE & RUGGED FOR WET & DUSTY ENVIRONMENTS

PART NUMBER CODE

