SEALED, ILLUMINATED ROCKER SWITCHES

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.

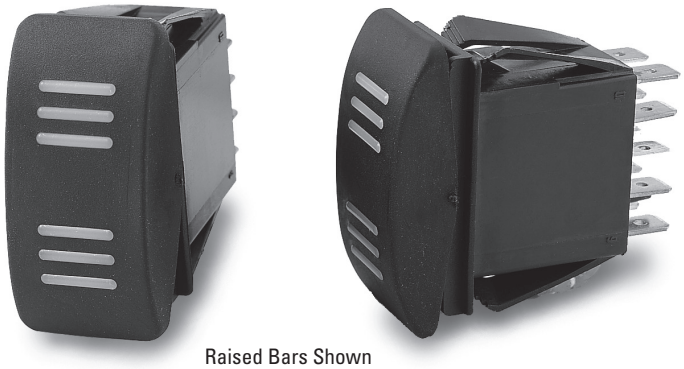
The K5 series offers a choice of LED, incandescent and neon illumination. Legends can be stamped onto a non-illuminated button, stamped onto an illuminated lens or laser etched into the lens and backlit.

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 button available**
- **RoHS/WEEE/Reach compliant**



Raised Bars Shown

Standard Characteristics/Ratings:

ELECTRICAL RATINGS:

Load	Sea Level @ 28VDC	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 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

SNAP-IN PANEL MOUNTING

K5 SERIES PART NUMBER CODE

Part Number Code Continued Below

K5 X X X X XX X X

Base Options

- **A.** With Keying Pin Only, Standard Rating, Silver Plate
- **B.** Without Barriers or Pin, Standard Rating, Silver Plate
- **C.** With Terminal Barriers Only, Standard Rating, Silver Plate
- **D.** With Keying Pin Only, Low Level Rating, Gold Plate
- **E.** Without Barriers or Pin, Low Level Rating, Gold Plate
- **F.** With Terminal Barriers Only, Low Level Rating, Gold Plate
- **G.** With Keying Pin Only, Standard Rating, No Plate
- **H.** Without Barrier or Pin, Standard Rating, No Plate
- **J.** With Terminal Barriers Only, Standard Rating, No Plate

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

Rocker Color*/Style

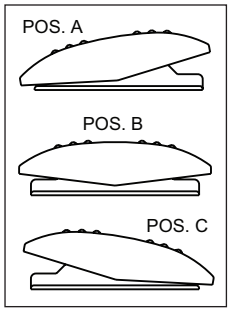
- **A.** Black Plastic Rocker
- **B.** Black "Soft Touch" Rocker
- **C.** Red Plastic Rocker
- **D.** Red "Soft Touch" Rocker
- **E.** White Plastic Rocker
- **F.** White "Soft Touch" Rocker
- **H.** Green Plastic Rocker
- **J.** Orange Plastic Rocker
- **K.** Blue Plastic Rocker
- **L.** Gray "Soft Touch" Rocker
- **M.** Gray Plastic Rocker

*Additional colors available. Contact factory.

Rocker Features

Position "A"	Position "C"
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.



Switch Action/Circuit

	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

Special Circuits

	Position "A"	Position "B"	Position "C"	Special Circuits
1H.	3-4/8-9	8-9	OFF	ON/ON/OFF
1J.	3-4/8-9	8-9	NONE	ON/ON/NONE
1K.	(3-4)/(8-9)	8-9	OFF	(ON)/ON/OFF
1L.	(3-4)/(8-9)	8-9	NONE	(ON)/ON/NONE
1M.	3-4/8-9	3-2/8-9	3-2/8-7	ON/ON/ON
1N.	(3-4)/(8-9)	3-2/8-9	3-2/8-7	(ON)/ON/ON
1P.	(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

NOTE: ( ) denotes momentary action.

Light Source Type

- **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

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. Ind. in "A" Dep. in "C"	1(-) & 6(+) 2(+) & 5(-)
J. Ind. in "A" Ind. in "C"	1(-) & 6(+) 5(-) & 10(+)

NOTE: Polarity only applies to LED circuits.

K5 PART NUMBER CODE - CONTINUED FROM ABOVE

X X XX XX X X X

Lens Color

Position "A"	Position "C"
1. Transparent Red	**1.** Transparent Red
2. Transparent Green	**2.** Transparent Green
3. Transparent Amber ①	**3.** Transparent Amber ①
4. Clear ①	**4.** Clear ①
5. Translucent White ②	**5.** Translucent White ②
Z. No Lens	**Z.** No Lens

NOTE: It is not recommended to use green LEDs with translucent white lenses. This will reduce light intensity. Use clear lenses with green LEDs for maximum light intensity.

① Recommended for neon lamps.
② Special Order: Ultra bright green LEDs to be used with translucent white lens.

STOP HERE for lighted switches without legends.

Example: K5AA331FNH-44

Legend Style

Position "A"	Position "C"
ZZ. No Legend	**ZZ.** No Legend

NOTE: For all other legend options, refer to the legend table on page 155, find the two digit code and enter the code in the appropriate position(s).

Legend Color

Position "A"	Position "C"
1. Red	**1.** Red
2. Black	**2.** Black
9. White	**9.** White
B. Backlight/ Daylight White ③	**B.** Backlight/ Daylight White ③
D. Backlight/ Deadfront ③	**D.** Backlight/ Deadfront ③
Z. No Legend	**Z.** No Legend

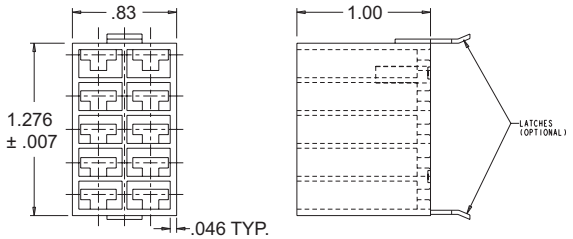
③ Only available on Rocker Style "A" & Rocker Features "1" and lens color "Z" for each position.

Legend Orientation

	Position "A"	Position "C"
1. Std.	A	C
2. 90°	A	C
3. 180°	A	C
4. 270°	A	C

STOP HERE for unlighted switches without legends.

Example: K5AA331BAA



K5 Connector

P/N 801775-2A Without Latches
P/N 801775-2B With Latches

Recommended Quick Connect Terminals

AMP 60253-2 for 12-16 AWG
AMP 42100-2 for 14-18 AWG

Panel Seal Gasket

P/N 807109

• K5 panel plugs available as shown on page 160.

Specifications Subject To Change Without Notice

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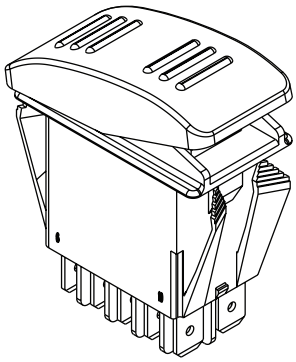
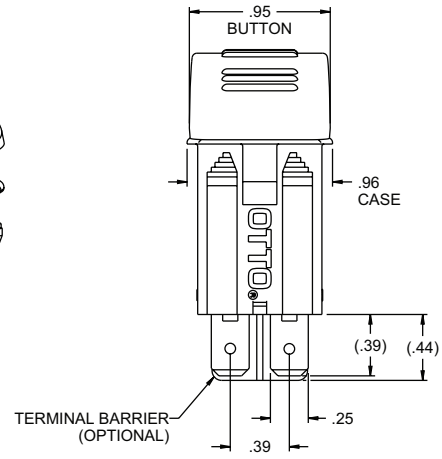
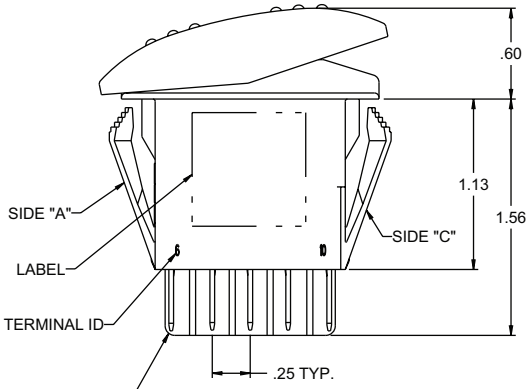
ATTRACTIVE & RUGGED FOR WET & DUSTY ENVIRONMENTS

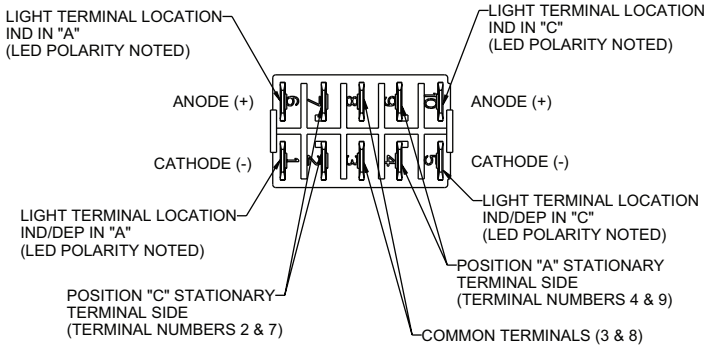




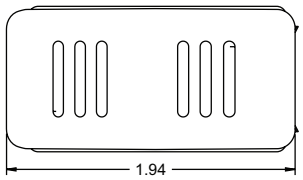


SWITCH SHOWN IN POSITION "A"

SWITCH SHOWN W/ TERMINAL BARRIERS
CONNECTOR KEY FEATURE OPTIONAL

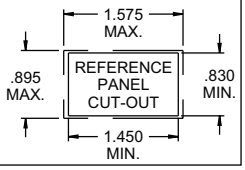


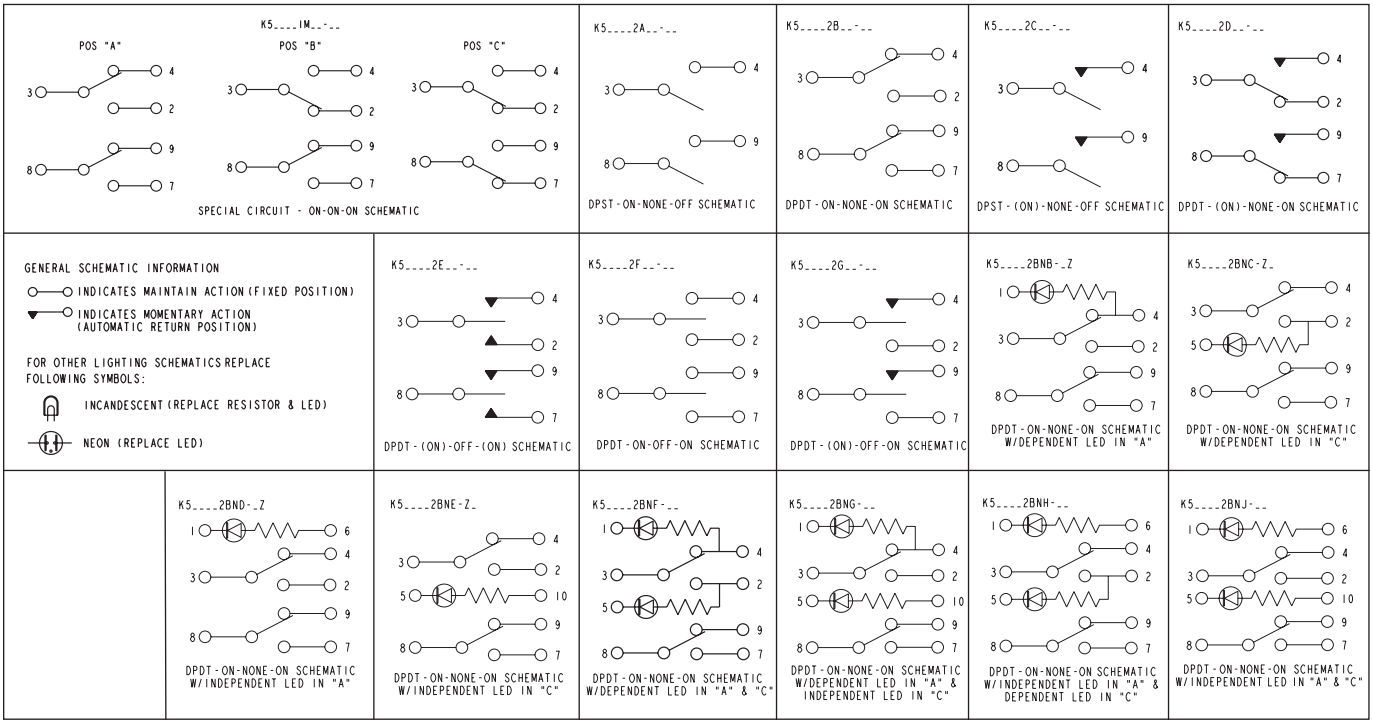
TERMINAL LOCATIONS AS VIEWED FROM BOTTOM OF SWITCH
(CASE REMOVED FOR CLARITY)
CONTACT MADE IN OPPOSITE DIRECTION OF ROCKER TRAVEL



MOUNTING OPENING:
PANEL THICKNESS RANGE OF .025 - .105 A GASKET IS RECOMMENDED
PANEL THICKNESS RANGE OF .105 - .187 W/O GASKET

PANEL OPENING:	MIN.	TYP.	MAX.
WIDTH	.830	.863	.895
LENGTH	1.450	1.513	1.575





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

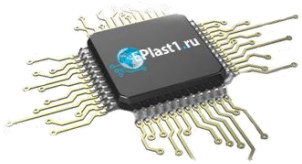
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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