

SEALED, ILLUMINATED ROCKER SWITCHES

K5
SEALED
ROCKERS

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 and IP69K
- 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 and IP69K

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

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

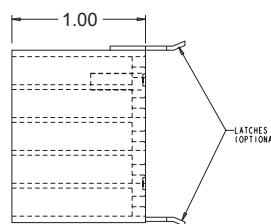
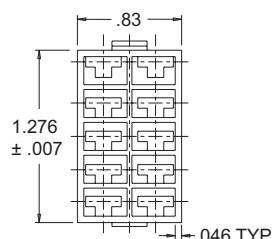
NOTE: () denotes momentary action

K5 PART NUMBER CODE - CONTINUED FROM ABOVE

| X | X | XX | XX | X | X | X | |
|---|------------------------|---------------------|---------------------|--|-----------------------------------|---------------------|---|
| Lens Color | | Legend Style | | Legend Color | | Legend Orientation | |
| Position "A" | Position "C" | Position "A" | Position "C" | Position "A" | Position "C" | Position "A" | Position "C" |
| 1. Transparent Red | 1. Transparent Red | ZZ. No Legend | ZZ. No Legend | 1. Red | 1. Red | 1. Std. |  |
| 2. Transparent Green | 2. Transparent Green | | | 2. Black | 2. Black | 2. 90° |  |
| 3. Transparent Amber ① | 3. Transparent Amber ① | | | 9. White | 9. White | 3. 180° |  |
| 4. Clear ① | 4. Clear ① | | | B. Backlight/ Daylight White ③ | B. Backlight/ Daylight White ③ | |  |
| 5. Translucent White ② | 5. Translucent White ② | | | D. Backlight/ Deadfront ③ | D. Backlight/ Deadfront ③ | |  |
| Z. No Lens | Z. No Lens | | | Z. No Legend | Z. No Legend | |  |
| NOTE: For all other legend options, refer to the legend table on page 164, find the two digit code and enter the code in the appropriate position(s). | | | | | | | |
| STOP HERE for lighted switches without legends. | | | | ③ Only available on Rocker Style "A" & Rocker Features "1" and lens color "Z" for each position. | | | |
| Example: KFAA221ENLH 44 | | | | 4. 270° | | | |

STOP HERE for
unlighted switches
without legends

Example:



K5 Connector

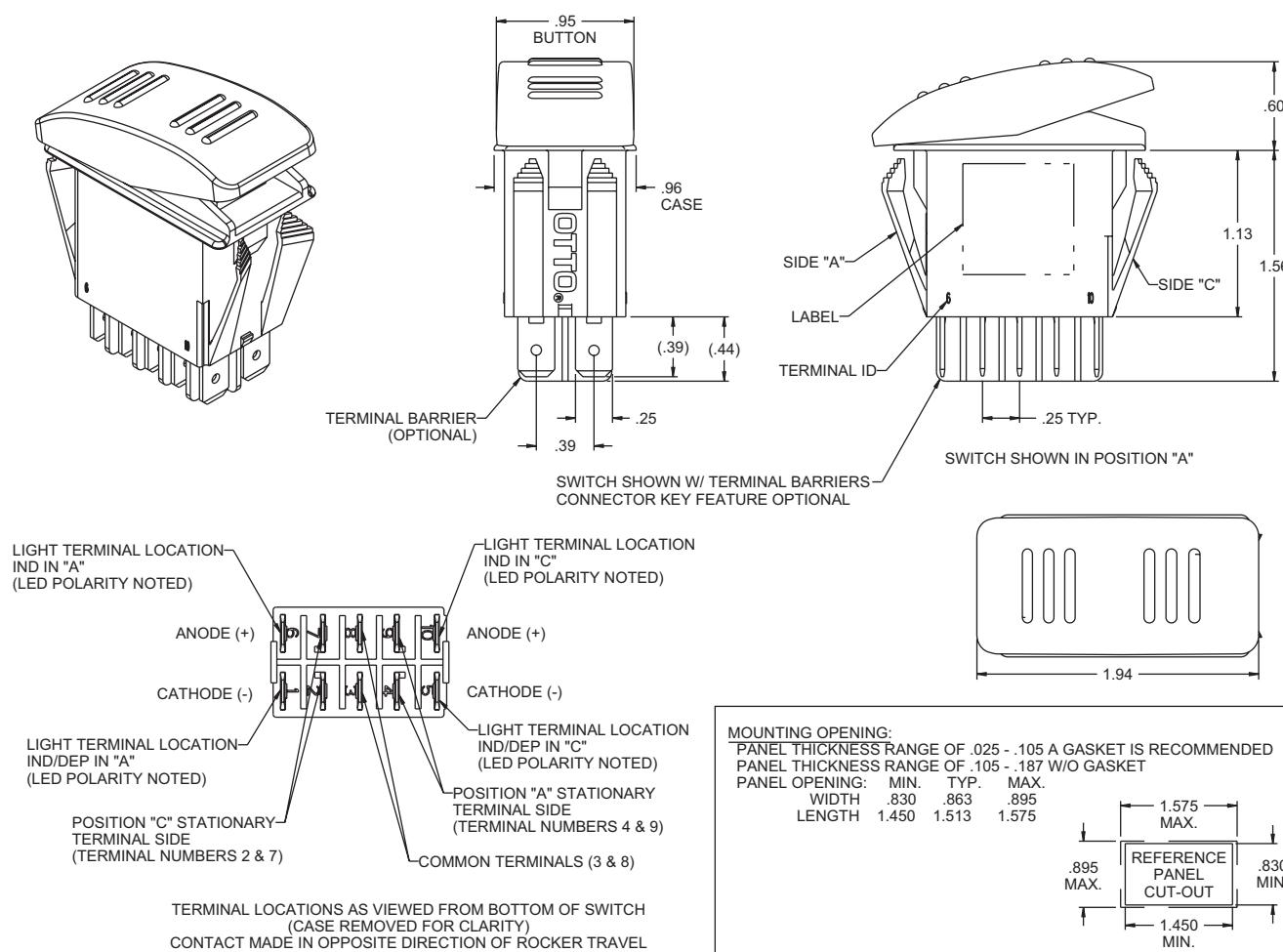
Recommended Quick Connect Terminals

Panel Seal Gasket

- K5 panel plugs available as shown on page 167.

SEALED, ILLUMINATED ROCKER SWITCHES

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| GENERAL SCHEMATIC INFORMATION | | K5....1M.... | K5....2A.... | K5....2B.... | K5....2C.... | K5....2D.... | |
|--|--|---|---|--|--|--|-----------------------------|
| ○—○ INDICATES MAINTAIN ACTION (FIXED POSITION) | | POS "A" 4 3○—○—○ 2 8○—○—○ 9 POS "B" 4 3○—○—○ 2 8○—○—○ 9 POS "C" 4 3○—○—○ 2 8○—○—○ 9 | DPST-ON-NONE-OFF SCHEMATIC | DPDT-ON-NONE-ON SCHEMATIC | DPDT-(ON)-NONE-OFF SCHEMATIC | DPDT-(ON)-NONE-ON SCHEMATIC | DPDT-(ON)-NONE-ON SCHEMATIC |
| ▼—○ INDICATES MOMENTARY ACTION (AUTOMATIC RETURN POSITION) | | | K5....2E.... | K5....2F.... | K5....2G.... | K5....2BNE-Z | |
| FOR OTHER LIGHTING SCHEMATICS REPLACE FOLLOWING SYMBOLS: | | | 3○—○—▼—○ 4 8○—○—▼—○ 9 DPDT-(ON)-OFF-(ON) SCHEMATIC | 3○—○—▼—○ 4 8○—○—▼—○ 9 DPDT-ON-OFF-ON SCHEMATIC | 3○—○—▼—○ 4 8○—○—▼—○ 9 DPDT-(ON)-OFF-ON SCHEMATIC | 1○—○—▼—○ 4 3○—○—▼—○ 2 8○—○—▼—○ 7 DPDT-(ON)-OFF-ON SCHEMATIC | |
| Ⓐ INCANDESCENT (REPLACE RESISTOR & LED) | | | K5....2F.... | K5....2G.... | K5....2BNE-Z | K5....2BNC-Z | |
| Ⓑ NEON (REPLACE LED) | | | 3○—○—▲—○ 2 8○—○—▲—○ 7 DPDT-ON-OFF-ON SCHEMATIC | 3○—○—▲—○ 2 8○—○—▲—○ 7 DPDT-ON-OFF-ON SCHEMATIC | 3○—○—▼—○ 4 8○—○—▼—○ 9 DPDT-(ON)-OFF-ON SCHEMATIC | 3○—○—○—○ 4 5○—○—○—○ 2 8○—○—○—○ 9 DPDT-ON-OFF-ON SCHEMATIC | |
| | | K5....2BND-Z | K5....2BNE-Z | K5....2BNF-Z | K5....2BNG-Z | K5....2BNH-Z | |
| | | 1○—○—▼—○ 6 3○—○—○—○ 4 8○—○—○—○ 7 DPDT-ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "A" | 3○—○—○—○ 4 5○—○—▼—○ 10 8○—○—○—○ 7 DPDT-ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "C" | 1○—○—▼—○ 4 3○—○—○—○ 2 5○—○—▼—○ 10 8○—○—○—○ 7 DPDT-ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "A" & INDEPENDENT LED IN "C" | 1○—○—▼—○ 6 3○—○—○—○ 4 5○—○—▼—○ 10 8○—○—○—○ 7 DPDT-ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "A" & INDEPENDENT LED IN "C" | 1○—○—▼—○ 6 3○—○—○—○ 4 5○—○—▼—○ 10 8○—○—○—○ 7 DPDT-ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "A" & INDEPENDENT LED IN "C" | |

SNAP-IN PANEL MOUNTING

Standard Legends Per SAE Specifications

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

For legends not shown, please consult an OTTO representative.

Mouser Electronics

Authorized Distributor

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