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" Ouick 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


Standard Characteristics/Ratings:

| ELECTRICAL RATINGS: |  |  |
| :---: | :---: | :---: |
| Load | Sea Level <br> @ 28VDC, 60/400Hz | Sea Level <br> @ 115VAC, 60/400Hz |
| Resistive | 20A | 16A |
| Inductive | 15A | 15A |
| Lamp | 5A | 5A |
| Motor | 0.5HP @ 110VAC |  |
| DWV | 1050Vrms except ac | rminals |
| Low Level | 10 mA |  |
| Electrical Life: | 25,000 cycles |  |
| LIGHTING: |  |  |
| Light Source | Rating |  |
| Incandescent | (VDC) 6V, 12V, 24V |  |
| Neon | (VAC) $125 \mathrm{~V}, 250 \mathrm{~V}$ |  |
| LED | (VDC) $2 \mathrm{~V}, 6 \mathrm{~V}, 12 \mathrm{~V}, 24$ |  |
| Mechanical Life: | 100,000 cycles |  |
| Seal: | IP68S |  |
| Operating Temp Range: | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |  |
| 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 |  |

Standard Legends Per SAE Specifications

| Al ANCHOR | K2（8）UNLOCK | P5 BILGE BLOWER |
| :---: | :---: | :---: |
| BI $\because$ BATTERY | LI LIGHT | $R 1 \underset{\text { ¢ LIFT }}{ }$ |
| B2 $\{$ ELECTRIC POWER | L2－－\％：MASTER LIGHTING SWITCH | R2 LOW LOWER |
| CI AC／COOLING SYSTEMS | L3 認 HEADLIGHTS | R3 UP |
| C2 Df DEHUMIDIFIER | $\angle 4 \equiv \text { HEADLIGHTS-LOW/ } \begin{gathered} \text { DIPPED BEAM } \end{gathered}$ | R4 V （ DOWN |
| C3 HEATER／INTERIOR HEATING | $\mathrm{L5} \equiv \mathrm{~B} \quad \begin{gathered} \text { HEADLIGHTS-HIGH/ } \\ \text { UPPER BEAM } \end{gathered}$ | R5 $\Rightarrow$ RIGHT |
| DI WINDSHIELD DEFROSTER | L6 PARKING LIGHT | R6 LEFT |
| D2 Di82 REAR WINDOW DEFROSTER | L7 IIIII WORK LAMP | R7 FWD FORWARD |
| D3 MIRROR DEFROSTER | L8 FIIII WORK LAMP | R8 REV REVERSE |
| EI ENGINE／START | L9 | SI R RADIO |
| E2 ENGINE／STOP | MI BEACON | S2（8）MUTE |
| E3 ON／START | M2 $\triangle$ HAZARDIPOSITION LIGHTS | TI FAST |
| E4 OFF／STOP | M3－0－CLEARENCE LIGHTS | T2 SLOW |
| E5 ON ON | M4 三D SIDE MARKER LIGHT | T3 $\begin{gathered}\text { TRIM TAB／} \\ \text { TRIMMING OPERATION }\end{gathered}$ |
| E6 OFF OFF | M5－RUNNING LIGHTS <br> （UNDER POWER） | T4 TRANSMISSION |
| E7 ENGINE ELECTRIC PREHEAT | M6－遈－ANCHOR LIGHT | VI |
| E8 ENGINE－GAS INJECTION | M7 早嶒 RUNNING／ANCHOR LIGHTS | WI WINDSHIELD WIPER |
|  | M8 SEARCH LIGHT | W2 WINDSHIELD－WASHER |
| F2 $\frac{\xi}{\ddagger}$ REAR FOG LIGHTS | M9 ¢ LEFT TURN SIGNAL | W3 WINDSHIELD－WASHER／WIPER |
| GI FUEL | MA $\Longleftrightarrow$ RIGHT TURN SIGNAL | W4 R REAR WINDOW WIPER |
| HI hos HORN | PI Billa Pump \＃l | W5 REAR WINDOW－WASHER |
| H2 HORN REAR | P2 ${ }_{\text {ara }}$ BILGE PUMP \＃2 | W6 REAR WINDOW－WASHER／WIPER |
| KI（B）LOCK | P3 BILGE PUMP \＃3 | ZZ NO LEGEND |
|  | P4 |  |

For legends not shown，please consult an $0 T T 0$ representative．


K5 SERIES


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

## ATTRACTIVE \& RUGGED FOR WET \& DUSTY ENVIRONMENTS

|  |  |   <br> EmATIC |  <br> DPST-ON-NONE-OFF SCHEMATIC | K5....-28..... <br> DPDT-ON-NONE-ON SCHEMATIC | к5....2c..... <br> DPST - (ON) - NONE-OFF SCHEMATIC | к5...-20..-. <br> DPDT - (ON) - NONE-ON SCHEMATIC |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| gencral schematic information <br> - O indicates maintain action (fixed position) <br> - O indicates momentary action (automatic return position) <br> for other lighting schematics replace FOLLOWING SYMBOLS: <br> incandescent (replace resistor \& Led) <br> neon (replace led) |  | DPDT - (ON)-OFF-(ON) SCHEMATIC | k5 ....-2F ..... <br> DPDT - ON-OFF-ON SCHEMATIC |  | к5.....28мв -. <br> DPDT - ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "A" | K5 ....-28NC-Z. <br> DPDT - ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "C" |
|  | K5 .-.-2BND-. 2 <br> DPDT - ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "A" | к5.....28NE-2. <br> 5 O (B) W-O 10 <br> DPDT - ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "C | K5 --.-2BNF-.- <br> DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "A" \& "C' | K5 . - - 2BNG-. <br> DPDT -ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "A" \& INDEPENDENT LED IN "C" | K5 ---_2BNH-. - <br> ${ }_{80}-\mathrm{O}-\mathrm{O}-\mathrm{O}$ <br> DPDT - ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "A" DEPENDENT LED IN "C" | K5...-28NJ... <br> DPDT - ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "A" \& "C" |

## PART NUMBER CODE



## 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

