

HIGH CYCLE LIFE, SEALED ROCKER SWITCHES

K1S
SNAP-IN
ROCKERS

SNAP-IN PANEL MOUNTING, MOMENTARY OR MAINTAINED ACTION, 1 AND 2 POLES

The industry's smallest sealed, logic level rocker offering a 1M cycle life in a short, behind panel, snap-in package. Available in both single and double pole configurations, with maintained or momentary action, in either two or three positions. In addition the K1S is available as a true ON-ON-ON rocker that is perfect for use as a Forward-Neutral-Reverse (FNR) switch. The double pole version offers redundancy for each switch state providing increased safety. Termination options include a Molex connector or wire leads.

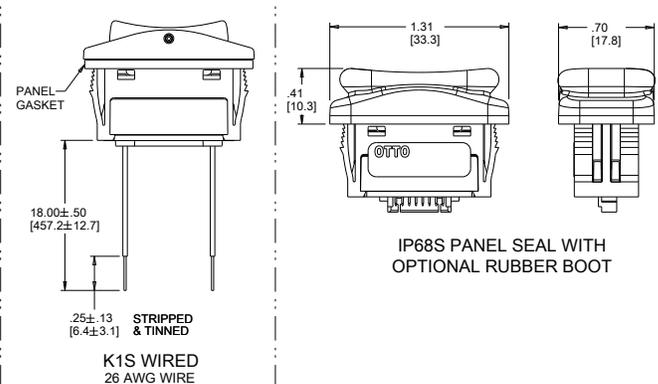
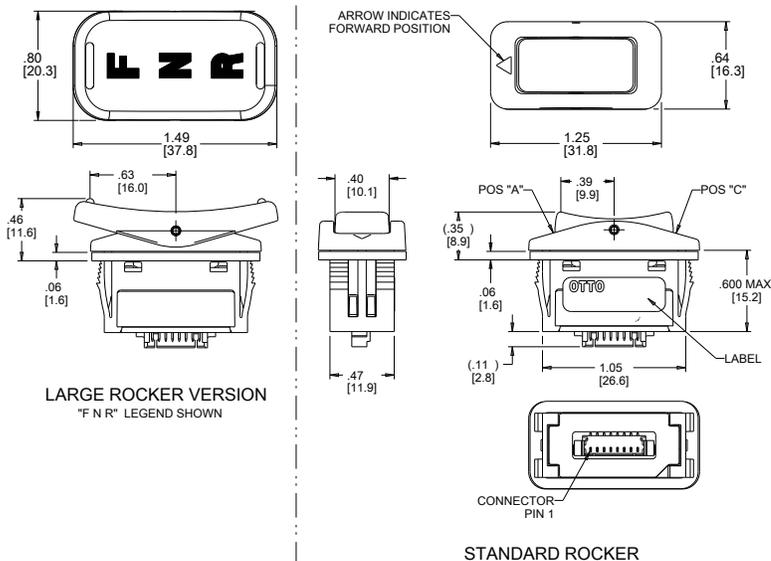
The K1S contact system is sealed to IP68S and uses a flow-thru design. With an optional boot, the switch is panel sealed to IP68S. The rugged K1S is shorter behind panel than OTTO's K1 rocker series, making it an ideal choice for use in grips and panels. The K1S also consists of two rocker button style/size options for best user comfort. Only one panel opening size is required, regardless of button size. Choose from a set of 73 standard legend choices which are offered with both normal and large-size rocker top styles, or add a custom logo, lettering or legend.

Features:

- Shorter behind panel depth
- High cycle life, 1,000,000 cycles
- Switch contacts sealed to IP68S (panel sealed to IP68S with optional rubber boot for standard rocker only)
- Maintained or momentary action
- Single or double pole
- True ON-ON-ON switch throw options
- Fits industry standard panel openings
- Logic level only
- 2 sizes of rocker styles, standard and large
- 2 termination types, connector and wire leads
- Choose from 73 standard legends per SAE or create your own
- RoHS compliant



| Standard Characteristics/Ratings: | |
|-----------------------------------|---|
| ELECTRICAL: | |
| Electrical Ratings: | 10mA @ 5VDC max. Logic Level |
| Electrical Life: | 1,000,000 cycles |
| Max Power: | 0.5 VA |
| Max Voltage: | 32VDC |
| Min Voltage: | 20mV |
| Max Current: | 50mA |
| Min Current: | 1mA |
| DWV: | 250 Vrms |
| MECHANICAL: | |
| Mechanical Life: | 1,000,000 cycles |
| Switch Contact Seal: | IP68S (Panel Seal IP68S with Optional Boot) |
| ENVIRONMENTAL: | |
| Temperature Range: | -40°C to +85°C |
| MATERIALS: | |
| Base: | Black Thermoplastic |
| Button: | Black Thermoplastic |
| Bezel: | Black Thermoplastic |
| Wire: | 26 AWG UL 11028 Wire |
| Gasket: | EPDM |



SNAP-IN PANEL MOUNTING, MOMENTARY OR MAINTAINED ACTION, 1 AND 2 POLES

K1S PART NUMBER CODE

Part Number Code Continues Below

| | |
|--|---|
| <p>K1S</p> <p style="text-align: center;"> X</p> <p>Connection Style</p> <p>A. 6 PIN Connector ①* B. 8 PIN Connector ② E. 18" Wires 26 AWG ③ G. 18" Wires 24 AWG ③</p> | <p style="text-align: center;"> X</p> <p>Rocker Color/Style</p> <p>A. Red Rocker B. Black Rocker C. White Rocker D. Large Red Rocker ④ E. Large Black Rocker ④ F. Large White Rocker ④ G. Yellow Rocker H. Large Yellow Rocker ④ J. Large Black Rocker with Embossed FNR (White) ④⑤⑥ K. Large Yellow Rocker with Embossed FNR (Black) ④⑤⑥ M. Red Rocker with Translucent Boot N. Black Rocker with Black Boot ⑤⑦ P. Black Rocker with Translucent Boot T. White Rocker with Translucent Boot V. Yellow Rocker with Translucent Boot W. Large Orange Rocker with Embossed FNR (Black) ④⑤⑥</p> |
|--|---|

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|---|-----------------|-----------------|-----------------|-----------------|---------|----|----|------|-----|------|----|----|------|----|------|----|------|------|-----|------|----|------|------|----|------|----|----|-----|----|------|----|------|-----|------|------|----|------|-----|----|------|----|----|----|----|------|----|----|------|-----|------|----|----|------|----|------|----|------|------|-----|------|----|------|------|----|------|----|----|-----|----|------|----|------|-----|------|------|----|------|-----|----|------|----|----|----|----|------|----|------|----|------|------|----|------|----|------|------|--|--------------|--------------|--------------|---------------|---------------|---------------|
| <p style="text-align: center;"> X</p> <p>Switch Action / Circuit</p> <table border="0"> <tr> <td></td> <td style="text-align: center;">Position "A"</td> <td style="text-align: center;">Position "B"</td> <td style="text-align: center;">Position "C"</td> <td style="text-align: center;">Circuit</td> </tr> <tr> <td>A.</td> <td>ON</td> <td>NONE</td> <td>OFF</td> <td>SPST</td> </tr> <tr> <td>B.</td> <td>ON</td> <td>NONE</td> <td>ON</td> <td>SPDT</td> </tr> <tr> <td>C.</td> <td>(ON)</td> <td>NONE</td> <td>OFF</td> <td>SPST</td> </tr> <tr> <td>D.</td> <td>(ON)</td> <td>NONE</td> <td>ON</td> <td>SPDT</td> </tr> <tr> <td>E.</td> <td>ON</td> <td>OFF</td> <td>ON</td> <td>SPDT</td> </tr> <tr> <td>F.</td> <td>(ON)</td> <td>OFF</td> <td>(ON)</td> <td>SPDT</td> </tr> <tr> <td>G.</td> <td>(ON)</td> <td>OFF</td> <td>ON</td> <td>SPDT</td> </tr> <tr> <td>H.</td> <td>ON</td> <td>ON</td> <td>ON</td> <td>SPTT</td> </tr> <tr> <td>J.</td> <td>ON</td> <td>NONE</td> <td>OFF</td> <td>DPST</td> </tr> <tr> <td>K.</td> <td>ON</td> <td>NONE</td> <td>ON</td> <td>DPDT</td> </tr> <tr> <td>L.</td> <td>(ON)</td> <td>NONE</td> <td>OFF</td> <td>DPST</td> </tr> <tr> <td>M.</td> <td>(ON)</td> <td>NONE</td> <td>ON</td> <td>DPDT</td> </tr> <tr> <td>N.</td> <td>ON</td> <td>OFF</td> <td>ON</td> <td>DPDT</td> </tr> <tr> <td>P.</td> <td>(ON)</td> <td>OFF</td> <td>(ON)</td> <td>DPDT</td> </tr> <tr> <td>R.</td> <td>(ON)</td> <td>OFF</td> <td>ON</td> <td>DPDT</td> </tr> <tr> <td>T.</td> <td>ON</td> <td>ON</td> <td>ON</td> <td>DPTT</td> </tr> <tr> <td>U.</td> <td>(ON)</td> <td>ON</td> <td>(ON)</td> <td>SPTT</td> </tr> <tr> <td>V.</td> <td>(ON)</td> <td>ON</td> <td>(ON)</td> <td>DPTT</td> </tr> </table> <p>NOTE: () denotes momentary action</p> | | Position "A" | Position "B" | Position "C" | Circuit | A. | ON | NONE | OFF | SPST | B. | ON | NONE | ON | SPDT | C. | (ON) | NONE | OFF | SPST | D. | (ON) | NONE | ON | SPDT | E. | ON | OFF | ON | SPDT | F. | (ON) | OFF | (ON) | SPDT | G. | (ON) | OFF | ON | SPDT | H. | ON | ON | ON | SPTT | J. | ON | NONE | OFF | DPST | K. | ON | NONE | ON | DPDT | L. | (ON) | NONE | OFF | DPST | M. | (ON) | NONE | ON | DPDT | N. | ON | OFF | ON | DPDT | P. | (ON) | OFF | (ON) | DPDT | R. | (ON) | OFF | ON | DPDT | T. | ON | ON | ON | DPTT | U. | (ON) | ON | (ON) | SPTT | V. | (ON) | ON | (ON) | DPTT | <p style="text-align: center;"> XX</p> <p>Legend Style</p> <table border="0"> <tr> <td style="text-align: center;">Position "A"</td> <td style="text-align: center;">Position "B"</td> <td style="text-align: center;">Position "C"</td> </tr> <tr> <td>ZZ. No Legend</td> <td>ZZ. No Legend</td> <td>ZZ. No Legend</td> </tr> </table> | Position "A" | Position "B" | Position "C" | ZZ. No Legend | ZZ. No Legend | ZZ. No Legend |
| | Position "A" | Position "B" | Position "C" | Circuit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A. | ON | NONE | OFF | SPST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. | ON | NONE | ON | SPDT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. | (ON) | NONE | OFF | SPST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D. | (ON) | NONE | ON | SPDT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E. | ON | OFF | ON | SPDT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F. | (ON) | OFF | (ON) | SPDT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G. | (ON) | OFF | ON | SPDT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H. | ON | ON | ON | SPTT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J. | ON | NONE | OFF | DPST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K. | ON | NONE | ON | DPDT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L. | (ON) | NONE | OFF | DPST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M. | (ON) | NONE | ON | DPDT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N. | ON | OFF | ON | DPDT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P. | (ON) | OFF | (ON) | DPDT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R. | (ON) | OFF | ON | DPDT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T. | ON | ON | ON | DPTT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U. | (ON) | ON | (ON) | SPTT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V. | (ON) | ON | (ON) | DPTT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position "A" | Position "B" | Position "C" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZ. No Legend | ZZ. No Legend | ZZ. No Legend | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

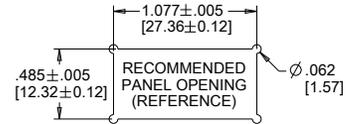
NOTE: For all other Legend Options, refer to Standard Legend Table below. Find the two digit code and enter the code in the appropriate positions

GASKET PART NUMBER (INCLUDED)
C807039-25-1

PANEL THICKNESS AND MOUNTING OPENING GUIDELINES^③

PANEL THICKNESS: .086±.003 [2.18±0.08]
RECOMMENDED PANEL THICKNESS REQUIRES EITHER THE PANEL GASKET OR THE OPTIONAL RUBBER BOOT FOR PROPER FITMENT.

PANEL OPENING:



K1S PART NUMBER CODE - Continued From Above

| | | | | | | | | | | | | | | | | | | | |
|---|--|--------------|--------------|--------------|---------|-------|-------|--------|-------|-------|---------|-------|-------|---------|-------|-------|----|----------------|--|
| <p style="text-align: center;"> XXX</p> <p>Legend Color**</p> <p>Position A / B / C</p> <p>1. Red 2. Black 9. White Z. No Legend</p> | <p style="text-align: center;"> X</p> <p>Legend Orientation</p> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td></td> <td style="text-align: center;">POSITION "A"</td> <td style="text-align: center;">POSITION "C"</td> </tr> <tr> <td>1. Std.</td> <td style="text-align: center;">A B C</td> <td style="text-align: center;">A B C</td> </tr> <tr> <td>2. 90°</td> <td style="text-align: center;">A B C</td> <td style="text-align: center;">A B C</td> </tr> <tr> <td>3. 180°</td> <td style="text-align: center;">A B C</td> <td style="text-align: center;">A B C</td> </tr> <tr> <td>4. 270°</td> <td style="text-align: center;">A B C</td> <td style="text-align: center;">A B C</td> </tr> <tr> <td>Z.</td> <td colspan="2">NO ORIENTATION</td> </tr> </table> | | POSITION "A" | POSITION "C" | 1. Std. | A B C | A B C | 2. 90° | A B C | A B C | 3. 180° | A B C | A B C | 4. 270° | A B C | A B C | Z. | NO ORIENTATION | |
| | POSITION "A" | POSITION "C" | | | | | | | | | | | | | | | | | |
| 1. Std. | A B C | A B C | | | | | | | | | | | | | | | | | |
| 2. 90° | A B C | A B C | | | | | | | | | | | | | | | | | |
| 3. 180° | A B C | A B C | | | | | | | | | | | | | | | | | |
| 4. 270° | A B C | A B C | | | | | | | | | | | | | | | | | |
| Z. | NO ORIENTATION | | | | | | | | | | | | | | | | | | |

- ① Mating Connector: MOLEX 51021-0600
- ② Mating Connector: MOLEX 51021-0800
- ③ Unless otherwise specified, all dimensions are in inch [metric]. In the event of a conflict, the inch nominal value and tolerance will take precedence.
- ④ Rubber boot not available
- ⑤ Legend is not available. Legend Style is ZZ and Legend Color is Z
- ⑥ Legend Orientation is 4
- ⑦ Legend Orientation is Z
- * 6 PIN Connector only available with A, B, C, D, J, K, L, M
- ** Legend color cannot be same color as button color (i.e. Red Button color cannot have Red Legend color)

OPTIONAL BOOT PART NUMBER

C405810-25-12 (Translucent)
C405810-25-2 (Black)

| STANDARD LEGENDS PER SAE SPECIFICATIONS | | | | | |
|---|-------------------------|----|------------------------------|----|-------------------------------|
| A1 | ANCHOR | H2 | HORN REAR | P4 | BILGE PUMP |
| B1 | BATTERY | K1 | LOCK | P5 | BILGE BLOWER |
| B2 | ELECTRIC POWER | K2 | UNLOCK | R1 | LIFT |
| C1 | AC/COOLING SYSTEMS | L1 | LIGHT | R2 | LOWER |
| C2 | DEHUMIDIFIER | L2 | MASTER LIGHTING SWITCH | R3 | UP |
| C3 | HEATER/INTERIOR HEATING | L3 | HEADLIGHTS | R4 | DOWN |
| D1 | WINDSHIELD DEFROSTER | L4 | HEADLIGHTS-LOW / DIPPED BEAM | R5 | RIGHT |
| D2 | REAR WINDOW DEFROSTER | L5 | HEADLIGHTS-HIGH / UPPER BEAM | R6 | LEFT |
| D3 | MIRROR DEFROSTER | L6 | PARKING LIGHT | R7 | FWD FORWARD |
| E1 | ENGINE/START | L7 | WORK LAMP | R8 | REV REVERSE |
| E2 | ENGINE/STOP | L8 | WORK LAMP | S1 | RADIO |
| E3 | ON/START | L9 | INTERIOR DOME LIGHT | S2 | MUTE |
| E4 | OFF/STOP | M1 | BEACON | T1 | FAST |
| E5 | ON | M2 | HAZARD/POSITION LIGHTS | T2 | SLOW |
| E6 | OFF | M3 | CLEARANCE LIGHTS | T3 | TRIM TAB / TRIMMING OPERATION |
| E7 | ENGINE ELECTRIC PREHEAT | M4 | SIDE MARKER LIGHT | T4 | TRANSMISSION |
| E8 | ENGINE-GAS INJECTION | M5 | RUNNING LIGHTS (UNDER POWER) | V1 | VENTILATING / AC FAN |
| E9 | POWER | M6 | ANCHOR LIGHT | W1 | WINDSHIELD WIPER |
| F1 | FRONT FOG LIGHTS | M7 | RUNNING/ANCHOR LIGHTS | W2 | WINDSHIELD-WASHER |
| F2 | REAR FOG LIGHTS | M8 | SEARCH LIGHT | W3 | WINDSHIELD-WASHER/WIPER |
| F3 | F FORWARD | M9 | LEFT TURN SIGNAL | W4 | REAR WINDOW WIPER |
| F4 | N NEUTRAL | MA | RIGHT TURN SIGNAL | W5 | REAR WINDOW-WASHER |
| F5 | R REVERSE | P1 | BILGE PUMP #1 | W6 | REAR WINDOW-WASHER/WIPER |
| G1 | F FUEL | P2 | BILGE PUMP #2 | ZZ | NO LEGEND |
| H1 | H HORN | P3 | BILGE PUMP #3 | | |

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WIRED CIRCUIT DIAGRAM

| K1S E _ A _ _ _ _ | K1S E _ B _ _ _ _ | K1S E _ C _ _ _ _ | K1S E _ D _ _ _ _ |
|---|---|---|---|
| <p>SPST - ON-NONE-OFF WIRED SCHEMATIC</p> | <p>SPDT - ON-NONE-ON WIRED SCHEMATIC</p> | <p>SPST - (ON)-NONE-OFF WIRED SCHEMATIC</p> | <p>SPDT - (ON)-NONE-ON SCHEMATIC</p> |
| <p>SPDT - ON-OFF-ON WIRED SCHEMATIC</p> | <p>SPDT - (ON)-OFF-(ON) WIRED SCHEMATIC</p> | <p>SPDT - (ON)-OFF-ON WIRED SCHEMATIC</p> | <p>SPSTT - ON-ON-ON WIRED SCHEMATIC</p> |
| <p>SPSTT - (ON)-ON-(ON) WIRED SCHEMATIC</p> | <p>DPST - ON-NONE-OFF WIRED SCHEMATIC</p> | <p>DPDT - ON-NONE-ON WIRED SCHEMATIC</p> | <p>DPST - (ON)-NONE-OFF WIRED SCHEMATIC</p> |
| <p>DPDT - (ON)-NONE-ON WIRED SCHEMATIC</p> | <p>DPDT - ON-OFF-ON WIRED SCHEMATIC</p> | <p>DPDT - (ON)-OFF-(ON) WIRED SCHEMATIC</p> | <p>DPDT - (ON)-OFF-ON WIRED SCHEMATIC</p> |
| <p>DPSTT - ON-ON-ON WIRED SCHEMATIC</p> | <p>DPSTT - (ON)-ON-(ON) WIRED SCHEMATIC</p> | | |

SNAP-IN PANEL MOUNTING, MOMENTARY OR MAINTAINED ACTION, 1 AND 2 POLES

CONNECTOR CIRCUIT DIAGRAM

| K1S B _ A _ _ _ _ | K1S B _ B _ _ _ _ | K1S B _ C _ _ _ _ | K1S B _ D _ _ _ _ |
|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| <p>SPST - ON-NONE-OFF SCHEMATIC</p> | <p>SPDT - ON-NONE-ON SCHEMATIC</p> | <p>SPST - (ON)-NONE-OFF SCHEMATIC</p> | <p>SPDT - (ON)-NONE-ON SCHEMATIC</p> |
| K1S B _ E _ _ _ _ | K1S B _ F _ _ _ _ | K1S B _ G _ _ _ _ | K1S B _ H _ _ _ _ |
| <p>SPDT - ON-OFF-ON SCHEMATIC</p> | <p>SPDT - (ON)-OFF-(ON) SCHEMATIC</p> | <p>SPDT - (ON)-OFF-ON SCHEMATIC</p> | <p>SPTT - ON-ON-ON SCHEMATIC</p> |
| K1S B _ U _ _ _ _ | K1S B _ J _ _ _ _ | K1S B _ K _ _ _ _ | K1S B _ L _ _ _ _ |
| <p>SPTT - ON-ON-ON SCHEMATIC</p> | <p>DPST - ON-NONE-OFF SCHEMATIC</p> | <p>DPDT - ON-NONE-ON SCHEMATIC</p> | <p>DPST - (ON)-NONE-OFF SCHEMATIC</p> |
| K1S B _ M _ _ _ _ | K1S B _ N _ _ _ _ | K1S B _ P _ _ _ _ | K1S B _ R _ _ _ _ |
| <p>DPDT - (ON)-NONE-ON SCHEMATIC</p> | <p>DPDT - ON-OFF-ON SCHEMATIC</p> | <p>DPDT - (ON)-OFF-(ON) SCHEMATIC</p> | <p>DPDT - (ON)-OFF-ON SCHEMATIC</p> |
| K1S B _ T _ _ _ _ | K1S B _ V _ _ _ _ | | |
| <p>DPTT - ON-ON-ON SCHEMATIC</p> | <p>DPTT - (ON)-ON-(ON) SCHEMATIC</p> | | |