

ATTRACTIVE & RUGGED FOR WET & DUSTY ENVIRONMENTS

Sealed to IP68S and IP69K, the OTTO K3 rocker switch 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.

K3 sealed rocker switches snap into industry-standard panel cutouts. Choose illuminated and printed legends, thru-panel drain option and switching compatibility from logic level to 20 amps.

The K3 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 logic level contact ratings, the K3 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
- Thru-panel drain option
- LED, neon & incandescent lighting
- 0.250" Quick Connect terminals
- Optional one-piece connector
- Optional terminal barriers
- Logic level up to 20 amp switch
- Configurable Single Pole Triple Throw (SPTT) with external jumpers
- RoHS compliant



| Standard Characteristics/Ratings: | | |
|-----------------------------------|--|-----------------------------|
| ELECTRICAL RATINGS: | | |
| Load | Sea Level @ 12/28VDC | Sea Level @ 125VAC, 60Hz |
| Resistive | 20A | 16A |
| Inductive | 15A | 15A |
| Lamp | 5A | 5A |
| Motor | 0.5HP @ 110VAC | |
| DVVV | 1050Vrms except across light terminals | |
| Logic Level | 10mA @ 5VDC, max D.C. logic level ratings (void if logic level load(s) exceeded at any time) | |
| Electrical Life: | 25,000 cycles | |
| LIGHTING: | | |
| Light Source | Rating (see appendix for complete voltage/current ratings table) | |
| 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, black | |
| Button: | Thermoplastic | |
| Terminals/Contact: | Brass, silver alloy with silver plate, gold flash for logic level | |
| Terminal Hardware: | K3 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

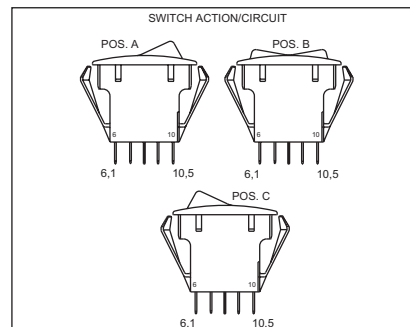
K3 SERIES PART NUMBER CODE

Part Number Code Continued Below

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| K3 | X | X | XX | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Options | Case Style/Button Color | Switch Action/Circuit | Light Source Type* | Light Circuit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 Logic Level Rating Gold Plate E. Without Barriers or Pin Logic Level Rating Gold Plate F. With Terminal Barriers Only Logic Level Rating Gold Plate G. With Keying Pin Only Standard Rating No Plate H. Without Barriers or Pin Standard Rating No Plate J. With Terminal Barriers Only Standard Rating No Plate | A. Case With Drain Holes Button Color: Black B. Case Without Drain Holes Button Color: Black C. Case With Drain Holes Button Color: Red D. Case Without Drain Holes Button Color: Red E. Case With Drain Holes Button Color: White F. Case Without Drain Holes Button Color: White NOTE: Switch case is black for all options below: 1. Case With Drain Holes Button Not Included 2. Case Without Drain Holes Button Not Included | <table border="0"> <tr> <td>Position "A"</td> <td>Position "B"</td> <td>Position "C"</td> <td>Circuit</td> </tr> <tr> <td>1A. 3-4</td> <td>NONE</td> <td>OFF</td> <td>SPST</td> </tr> <tr> <td>2A. 3-4/8-9</td> <td>NONE</td> <td>OFF</td> <td>DPST</td> </tr> <tr> <td>1B. 3-4</td> <td>NONE</td> <td>3-2</td> <td>SPDT</td> </tr> <tr> <td>2B. 3-4/8-9</td> <td>NONE</td> <td>3-2/8-7</td> <td>DPDT</td> </tr> <tr> <td>1C. (3-4)</td> <td>NONE</td> <td>OFF</td> <td>SPST</td> </tr> <tr> <td>2C. (3-4)/(8-9)</td> <td>NONE</td> <td>OFF</td> <td>DPST</td> </tr> <tr> <td>1D. (3-4)</td> <td>NONE</td> <td>3-2</td> <td>SPDT</td> </tr> <tr> <td>2D. (3-4)/(8-9)</td> <td>NONE</td> <td>3-2/8-7</td> <td>DPDT</td> </tr> <tr> <td>1E. (3-4)</td> <td>OFF</td> <td>(3-2)</td> <td>SPDT</td> </tr> <tr> <td>2E. (3-4)/(8-9)</td> <td>OFF</td> <td>(3-2)/(8-7)</td> <td>DPDT</td> </tr> <tr> <td>1F. 3-4</td> <td>OFF</td> <td>3-2</td> <td>SPDT</td> </tr> <tr> <td>2F. 3-4/8-9</td> <td>OFF</td> <td>3-2/8-7</td> <td>DPDT</td> </tr> <tr> <td>1G. (3-4)</td> <td>OFF</td> <td>3-2</td> <td>SPDT</td> </tr> <tr> <td>2G. (3-4)/(8-9)</td> <td>OFF</td> <td>3-2/8-7</td> <td>DPDT</td> </tr> </table> | 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 | 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 | <table border="0"> <tr> <td>Circuit</td> <td>Terminal Connections</td> </tr> <tr> <td>A. None</td> <td>None</td> </tr> <tr> <td>B. Dep. in "A"</td> <td>1(-) & 4(+)</td> </tr> <tr> <td>C. Dep. in "C"</td> <td>2(+) & 5(-)</td> </tr> <tr> <td>D. Ind. in "A"</td> <td>1(-) & 6(+)</td> </tr> <tr> <td>E. Ind. in "C"</td> <td>5(-) & 10(+)</td> </tr> <tr> <td>F. Dep. in "A"</td> <td>1(-) & 4(+)</td> </tr> <tr> <td>J. Dep. in "C"</td> <td>2(+) & 5(-)</td> </tr> <tr> <td>G. Dep. in "A"</td> <td>1(-) & 4(+)</td> </tr> <tr> <td>L. Ind. in "C"</td> <td>5(-) & 10(+)</td> </tr> <tr> <td>H. Ind. in "A"</td> <td>1(-) & 6(+)</td> </tr> <tr> <td>I. Dep. in "C"</td> <td>2(+) & 5(-)</td> </tr> <tr> <td>J. Ind. in "A"</td> <td>1(-) & 6(+)</td> </tr> <tr> <td>Q. Ind. in "C"</td> <td>5(-) & 10(+)</td> </tr> </table> | | 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" | 1(-) & 4(+) | J. Dep. in "C" | 2(+) & 5(-) | G. Dep. in "A" | 1(-) & 4(+) | L. Ind. in "C" | 5(-) & 10(+) | H. Ind. in "A" | 1(-) & 6(+) | I. Dep. in "C" | 2(+) & 5(-) | J. Ind. in "A" | 1(-) & 6(+) | Q. Ind. in "C" | 5(-) & 10(+) |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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" | 1(-) & 4(+) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J. Dep. in "C" | 2(+) & 5(-) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G. Dep. in "A" | 1(-) & 4(+) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L. Ind. in "C" | 5(-) & 10(+) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H. Ind. in "A" | 1(-) & 6(+) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | Special Circuits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

*See appendix for complete voltage/current ratings table.

NOTE: () denotes momentary action.



K3 PART NUMBER CODE - CONTINUED FROM ABOVE

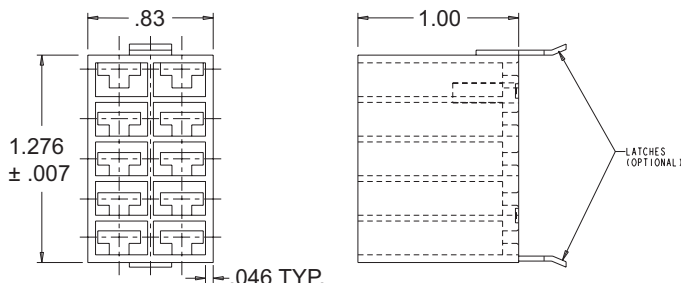
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|---------------------------|---------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|-------------------|-------------------|-------------------------------|-------------------------------|---------------------|---------------------|---|---------------------|---------------------|----------------------|----------------------|--|---------------------|---------------------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|--------------------------------------|--------------------------------------|---------------------------------|---------------------------------|---------------------|---------------------|--|--|---------------------|---------------------|----------------|----------------|---------------|---------------|----------------|----------------|----------------|----------------|--|--|
| X | X | XX | XX | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lens Color | Legend Style | Legend Color | Legend Orientation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="0"> <tr> <td>Position "A"</td> <td>Position "C"</td> </tr> <tr> <td>1. Transparent Red</td> <td>1. Transparent Red</td> </tr> <tr> <td>2. Transparent Green</td> <td>2. Transparent Green</td> </tr> <tr> <td>3. Transparent Amber ①</td> <td>3. Transparent Amber ①</td> </tr> <tr> <td>4. Clear ①</td> <td>4. Clear ①</td> </tr> <tr> <td>5. Translucent White ②</td> <td>5. Translucent White ②</td> </tr> <tr> <td>Z. No Lens ③</td> <td>Z. No Lens ③</td> </tr> </table> | 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 ③ | Z. No Lens ③ | <table border="0"> <tr> <td>Position "A"</td> <td>Position "C"</td> </tr> <tr> <td>ZZ. No Legend</td> <td>ZZ. No Legend</td> </tr> </table> | Position "A" | Position "C" | ZZ. No Legend | ZZ. No Legend | <table border="0"> <tr> <td>Position "A"</td> <td>Position "C"</td> </tr> <tr> <td>1. Red</td> <td>1. Red</td> </tr> <tr> <td>2. Black</td> <td>2. Black</td> </tr> <tr> <td>9. White</td> <td>9. White</td> </tr> <tr> <td>B. Backlight/Daylight White ④</td> <td>B. Backlight/Daylight White ④</td> </tr> <tr> <td>D. Backlight/Deadfront ④</td> <td>D. Backlight/Deadfront ④</td> </tr> <tr> <td>Z. No Legend</td> <td>Z. No Legend</td> </tr> </table> | Position "A" | Position "C" | 1. Red | 1. Red | 2. Black | 2. Black | 9. White | 9. White | B. Backlight/Daylight White ④ | B. Backlight/Daylight White ④ | D. Backlight/Deadfront ④ | D. Backlight/Deadfront ④ | Z. No Legend | Z. No Legend | <table border="0"> <tr> <td>Position "A"</td> <td>Position "C"</td> </tr> <tr> <td>1. Std.</td> <td>1. Std.</td> </tr> <tr> <td>2. 90°</td> <td>2. 90°</td> </tr> <tr> <td>3. 180°</td> <td>3. 180°</td> </tr> <tr> <td>4. 270°</td> <td>4. 270°</td> </tr> </table> | | Position "A" | Position "C" | 1. Std. | 1. Std. | 2. 90° | 2. 90° | 3. 180° | 3. 180° | 4. 270° | 4. 270° | | |
| 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 ③ | Z. No Lens ③ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position "A" | Position "C" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZ. No Legend | ZZ. No Legend | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position "A" | Position "C" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Red | 1. Red | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Black | 2. Black | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. White | 9. White | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. Backlight/Daylight White ④ | B. Backlight/Daylight White ④ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D. Backlight/Deadfront ④ | D. Backlight/Deadfront ④ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z. No Legend | Z. No Legend | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position "A" | Position "C" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Std. | 1. Std. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. 90° | 2. 90° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. 180° | 3. 180° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. 270° | 4. 270° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>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.</p> <p>① Recommended for neon lamps. ② Special Order: Ultra bright green LED to be used with translucent white lenses. ③ Legend colors "B" & "D" are only available on lens color "Z".</p> | <p>NOTE: For all other legend options, refer to the legend table in the appendix, find the two digit code and enter the code in the appropriate position(s).</p> | <p>④ For legend color "B" and "D", please use button color "A" & "B" and lens color "Z" for each position.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

STOP HERE for lighted switches without legends.

Example: K3AAIFNH-44

STOP HERE for unlighted switches without legends.

Example: K3AAIFAA



K3 Connector
P/N C801775-2A Without Latches
P/N C801775-2B With Latches

Panel Seal Gasket
P/N C807037

Order separately for use with switches without drain holes.

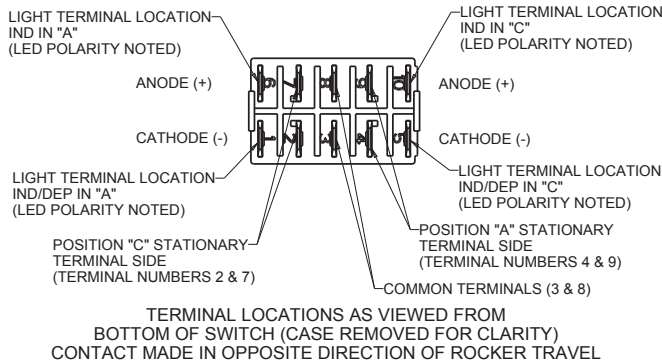
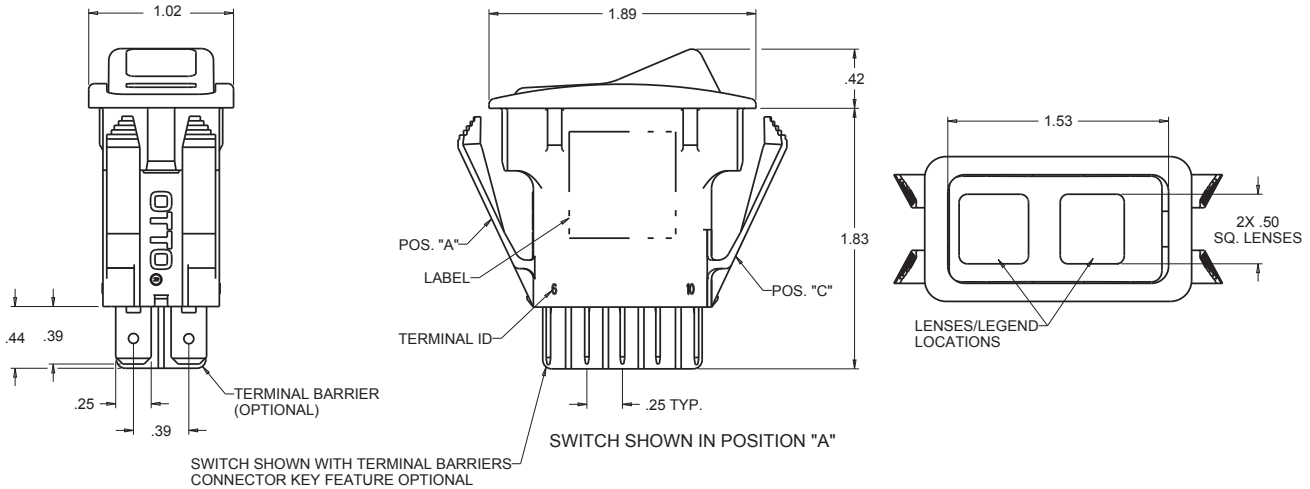
Panel Plug
See Panel Plug (PP) page.

• K3 panel plugs available as shown in Panel Plugs (PP) section.

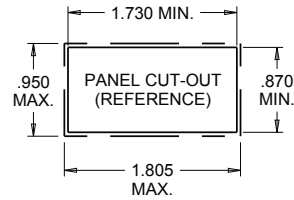
Recommended Quick Connect Terminals:
AMP 60253-2 for 12-16 AWG
AMP 42100-2 for 14-18 AWG

SEALED, ILLUMINATED ROCKER SWITCHES

SNAP-IN PANEL MOUNTING, ATTRACTIVE & RUGGED FOR WET & DUSTY ENVIRONMENTS



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 .870 .937 .950
LENGTH 1.730 1.768 1.805



| | | | | |
|---|--|---|---|---|
| <p>K3..1M... POS "A" POS "B" POS "C" SPECIAL CIRCUIT - ON-ON-ON SCHEMATIC</p> | <p>K3..2A... DPST-ON-NONE-OFF SCHEMATIC</p> | <p>K3..2B... DPDT-ON-NONE-ON SCHEMATIC</p> | <p>K3..2C... DPST-(ON)-NONE-OFF SCHEMATIC</p> | <p>K3..2D... DPDT-(ON)-NONE-ON SCHEMATIC</p> |
| <p>GENERAL SCHEMATIC INFORMATION</p> <p>○ INDICATES MAINTAIN ACTION (FIXED POSITION) ▼ INDICATES MOMENTARY ACTION (AUTOMATIC RETURN POSITION)</p> <p>FOR OTHER LIGHTING SCHEMATICS REPLACE FOLLOWING SYMBOLS:</p> <p>⊕ INCANDESCENT (REPLACE RESISTOR & LED) ⊖ NEON (REPLACE LED)</p> | <p>K3..2E... DPDT-(ON)-OFF-(ON) SCHEMATIC</p> | <p>K3..2F... DPDT-ON-OFF-ON SCHEMATIC</p> | <p>K3..2G... DPDT-(ON)-OFF-ON SCHEMATIC</p> | <p>K3..2BNC-Z DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "A"</p> |
| <p>K3..2BND-Z DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "A"</p> | <p>K3..2BNE-Z DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "C"</p> | <p>K3..2BNF... DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "A" & "C"</p> | <p>K3..2BNG... DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "A" & "C"</p> | <p>K3..2BNH... DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "A" & "C"</p> |

K1 THROUGH K5 & R2 PANEL PLUGS

K1-PA Panel Plug
One Piece Molded

OPTIONAL PANEL GASKET:
0.062" THICKNESS = P/N 807039-1
0.031" THICKNESS = P/N 807039-2

MOUNTING HOLE

RECOMMENDED PANEL THICKNESS: RANGE 0.025 - 0.105 OPTIONAL PANEL GASKET RECOMMENDED
RANGE 0.105 - 0.187 WITHOUT GASKET

| Panel Opening: | Min. | Typ. | Max. |
|----------------|-------|-------|-------|
| Width | 0.480 | 0.515 | 0.550 |
| Length | 1.072 | 1.099 | 1.125 |

K2-PB Panel Plug
Assembled Plug

OPTIONAL PANEL GASKET:
0.062" THICKNESS = P/N 807038-1
0.031" THICKNESS = P/N 807038-2

MOUNTING HOLE

RECOMMENDED PANEL THICKNESS: RANGE 0.025 - 0.105 OPTIONAL PANEL GASKET RECOMMENDED
RANGE 0.105 - 0.187 WITHOUT GASKET

| Panel Opening: | Min. | Typ. | Max. |
|----------------|-------|-------|-------|
| Width | 0.870 | 0.937 | 1.00 |
| Length | 1.072 | 1.099 | 1.125 |

K4-PB Panel Plug
Assembled Plug

OPTIONAL PANEL GASKET:
0.062" THICKNESS = P/N 807038-1
0.031" THICKNESS = P/N 807038-2

MOUNTING HOLE

RECOMMENDED PANEL THICKNESS: RANGE 0.025 - 0.105 OPTIONAL PANEL GASKET RECOMMENDED
RANGE 0.105 - 0.187 WITHOUT GASKET

| Panel Opening: | Min. | Typ. | Max. |
|----------------|-------|-------|-------|
| Width | 0.870 | 0.937 | 1.00 |
| Length | 1.072 | 1.099 | 1.125 |

K3-PB Panel Plug
Assembled Plug

OPTIONAL PANEL GASKET:
P/N C807037

MOUNTING HOLE

RECOMMENDED PANEL THICKNESS: RANGE 0.025 - 0.105 OPTIONAL PANEL GASKET RECOMMENDED
RANGE 0.102 - 0.187 WITHOUT GASKET

| Panel Opening: | Min. | Typ. | Max. |
|----------------|-------|-------|-------|
| Width | 0.870 | 0.937 | 0.950 |
| Length | 1.730 | 1.768 | 1.805 |

K5-PA / R2-PA Panel Plug
One Piece Molded

OPTIONAL PANEL GASKET:
P/N C807109

MOUNTING HOLE

RECOMMENDED PANEL THICKNESS: RANGE 0.025 - 0.105 OPTIONAL PANEL GASKET RECOMMENDED
RANGE 0.105 - 0.187 WITHOUT GASKET

| Panel Opening: | Min. | Typ. | Max. |
|----------------|-------|-------|-------|
| Width | 0.830 | 0.863 | 0.895 |
| Length | 1.450 | 1.513 | 1.575 |

PANEL PLUG PART NUMBER CODE

X - X X X X

Series Plug Style Plug Color^③ Button Insert^③

K1^① P A. One Piece Molded 1. Red 1. Red*

K2^② B. Assembled Plug 2. Black 2. Black*

K3^② 9. White 9. White*

K4^② Z. NONE**

K5^①

R2^①

*K3 series only.
**Molded plug only.

- ① Available in Style A only.
- ② Available in Style B only.
- ③ Additional colors available. Contact factory.

LED VOLTAGE/CURRENT RATINGS TABLE

ROCKER AND ROTARY SWITCH VOLTAGE/CURRENT RATINGS TABLES

K1, K2, K3P and K4 LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

| LIGHT SOURCE VOLTAGE CATEGORY | LIGHT SOURCE COLOR | FORWARD CURRENT | TYPICAL FORWARD/ NOMINAL VOLTAGE | MAX. FORWARD VOLTAGE |
|-------------------------------|--------------------|-----------------|----------------------------------|----------------------|
| 6 VDC INCANDESCENT | WHITE | .2 AMPS | 6 VDC | 8 VDC |
| 12 VDC INCANDESCENT | WHITE | .08 AMPS | 12 VDC | 14 VDC |
| 24 VDC INCANDESCENT | WHITE | .04 AMPS | 24 VDC | 28 VDC |
| 125 VAC NEON | AMBER | 1.9 mA | 125 VAC | 125 VAC |
| 250 VAC NEON | AMBER | 1.9 mA | 250 VAC | 250 VAC |
| 2 V LED PRODUCTS* | RED | 20 mA | 1.9 VDC | 2.5 VDC |
| | GREEN | 20 mA | 2.15 VDC | 2.5 VDC |
| | AMBER | 20 mA | 1.95 VDC | 2.5 VDC |
| | BLUE | 20 mA | 3.5 VDC | 4.0 VDC |
| 6 V LED PRODUCTS | SEE CHART | 20 mA | 6 VDC | 8 VDC |
| 12 V LED PRODUCTS | SEE CHART | 20 mA | 12 VDC | 14 VDC |
| 24 V LED PRODUCTS | SEE CHART | 20 mA | 24 VDC | 28 VDC |

K3/K5 LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

| LIGHT SOURCE VOLTAGE CATEGORY | LIGHT SOURCE COLOR | FORWARD CURRENT | TYPICAL FORWARD/ NOMINAL VOLTAGE | MAX. FORWARD VOLTAGE |
|-------------------------------|--------------------|-----------------|----------------------------------|----------------------|
| 6 VDC INCANDESCENT | WHITE | .2 AMPS | 6 VDC | 8 VDC |
| 12 VDC INCANDESCENT | WHITE | .08 AMPS | 12 VDC | 14 VDC |
| 24 VDC INCANDESCENT | WHITE | .04 AMPS | 24 VDC | 28 VDC |
| 125 VAC NEON | AMBER | 1.9 mA | 125 VAC | 125 VAC |
| 250 VAC NEON | AMBER | 1.9 mA | 250 VAC | 250 VAC |
| 2 V LED PRODUCTS* | RED | 20 mA | 2.0 VDC | 2.5 VDC |
| | GREEN | 20 mA | 2.2 VDC | 2.6 VDC |
| | AMBER | 20 mA | 2.1 VDC | 2.5 VDC |
| 6 V LED PRODUCTS | SEE CHART | 20 mA | 6 VDC | 8 VDC |
| 12 V LED PRODUCTS | SEE CHART | 20 mA | 12 VDC | 14 VDC |
| 24 V LED PRODUCTS | SEE CHART | 20 mA | 24 VDC | 28 VDC |

R2 LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

| LIGHT SOURCE VOLTAGE CATEGORY | LIGHT SOURCE COLOR | FORWARD CURRENT | TYPICAL FORWARD/ NOMINAL VOLTAGE | MAX. FORWARD VOLTAGE |
|-------------------------------|--------------------|-----------------|----------------------------------|----------------------|
| 2 V LED PRODUCTS* | RED | 20 mA | 2.0 VDC | 2.5 VDC |
| | GREEN | 20 mA | 2.2 VDC | 2.6 VDC |
| | AMBER | 20 mA | 2.1 VDC | 2.5 VDC |
| 6 V LED PRODUCTS | SEE CHART | 20 mA | 6 VDC | 8 VDC |
| 12 V LED PRODUCTS | SEE CHART | 20 mA | 12 VDC | 14 VDC |
| 24 V LED PRODUCTS | SEE CHART | 20 mA | 24 VDC | 28 VDC |

*Intended for use with external resistor. The "2 volt" switches are intended to have a resistor added in series into the lighting circuit by the customer. To determine the approximate value of the resistor, use the equation below:

$$\text{RESISTOR SIZE} = \frac{\text{POWER SUPPLY VOLTAGE} - \text{LED FORWARD VOLTAGE}}{\text{LED FORWARD CURRENT}}$$

LED VOLTAGE/CURRENT RATINGS TABLE

ILLUMINATED PUSHBUTTON SWITCH & INDICATOR LIGHTS VOLTAGE/CURRENT RATINGS TABLES

LP3, LP5 AND LPL SERIES LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

| LIGHT SOURCE VOLTAGE CATEGORY | LED COLOR | FORWARD CURRENT | TYP. FORWARD VOLTAGE (DC) | MAX. FORWARD VOLTAGE DC |
|-------------------------------|------------|-----------------|---------------------------|-------------------------|
| 2V* PRODUCTS | RED | 20 mA | 1.9V | 2.5V |
| | GREEN | 20 mA | 2.2V | 2.6V |
| | AMBER | | | |
| | BLUE | 20 mA | 3.3V | 4V |
| | DEEP GREEN | | | |
| 6V PRODUCTS | ALL COLORS | 20 mA | 6V | 8V |
| 12V PRODUCTS | ALL COLORS | 20 mA | 12V | 14.5V |
| 24V PRODUCTS | ALL COLORS | 20 mA | 24 V | 28.6 V |

LP3S LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

| LIGHT SOURCE VOLTAGE CATEGORY | LED COLOR | FORWARD CURRENT | TYP. FORWARD VOLTAGE | MAX. FORWARD VOLTAGE |
|-------------------------------|------------|-----------------|----------------------|----------------------|
| 2V* PRODUCTS | RED | 20 mA | 2 V | 2.5 V |
| | GREEN | | | |
| | AMBER | | | |
| | BLUE | 20 mA | 3.2 V | 4 V |
| | DEEP GREEN | | | |
| WHITE | | | | |
| 12V PRODUCTS | ALL COLORS | 20 mA | 12V | 14V |
| 24V PRODUCTS | ALL COLORS | 20 mA | 24 V | 28.6 V |

LP7-D and LP9 SERIES LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

| LIGHT SOURCE VOLTAGE CATEGORY | LED COLOR, WAVELENGTH (nm) | FORWARD CURRENT | TYP. FORWARD VOLTAGE | MAX. FORWARD VOLTAGE |
|---|----------------------------|-----------------|----------------------|----------------------|
| 2V LIGHTPIPE STYLE | RED (631) | 20 mA | 2V | 2.4V |
| | GREEN (525) | 20 mA | 3.2V | 3.6V |
| | AMBER (591) | 20 mA | 2.1V | 2.4V |
| | BLUE (470) | 20 mA | 3.3V | 3.8V |
| | WHITE | 5 mA | 2.9V | 3.15V |
| 2V, TRANSLUCENT FULLY ILLUMINATED STYLE | RED (630) | 20 mA | 1.95V | 2.5V |
| | GREEN (525) | 20 mA | 3.3V | 4.1V |
| | AMBER (601) | 20 mA | 2.1V | 2.5V |
| | BLUE (465) | 20 mA | 3.3V | 4V |
| | WHITE | 5 mA | 2.85V | 3.1V |
| 12V ALL PRODUCTS | ALL COLORS, SAME AS 2V | (20 mA) | 12.0V | 14.0V |

| LP9L SERIES LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS | | | | |
|--|----------------------------|-----------------|----------------------|----------------------|
| LIGHT SOURCE VOLTAGE CATEGORY | LED COLOR, WAVELENGTH (nm) | FORWARD CURRENT | TYP. FORWARD VOLTAGE | MAX. FORWARD VOLTAGE |
| 2V PRODUCTS | RED (631) | 20 mA | 2V | 2.4V |
| | GREEN (525) | 20 mA | 3.2V | 3.6V |
| | AMBER (591) | 20 mA | 2.1V | 2.4V |
| | BLUE (470) | 20 mA | 3.3V | 3.8V |
| | WHITE | 5 mA | 2.9V | 3.15V |
| 12V PRODUCTS | ALL COLORS, SAME AS 2V | (20 mA) | 12.0V | 14.0V |

*Intended for use with external resistor. The "2 volt" switches are intended to have a resistor added in series into the lighting circuit by the customer. To determine the approximate value of the resistor, use the equation below:

$$\text{RESISTOR SIZE} = \frac{\text{POWER SUPPLY VOLTAGE} - \text{LED FORWARD VOLTAGE}}{\text{LED FORWARD CURRENT}}$$

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