

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:		
<b>ELECTRICAL RATINGS:</b>		
Load	Sea Level @ 12/28VDC	Sea Level @ 125VAC, 60Hz
Resistive	20A	16A
Inductive	15A	15A
Lamp	5A	5A
Motor	0.5HP @ 110VAC	
DWV	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)	
<b>Electrical Life:</b>	25,000 cycles	
<b>LIGHTING:</b>		
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	
<b>Mechanical Life:</b>	100,000 cycles	
<b>Seal:</b>	IP68S and IP69K	
<b>Operating Temp Range:</b>	-40°C to +85°C	
<b>MATERIALS:</b>		
<b>Case:</b>	Thermoplastic, black	
<b>Button:</b>	Thermoplastic	
<b>Terminals/Contact:</b>	Brass, silver alloy with silver plate, gold flash for logic level	
<b>Terminal Hardware:</b>	K3 series recommended Quick Connect terminals: AMP 60253-2 for 12-16 AWG AMP 42100-2 for 14-18 AWG	
<b>Mounting Hardware:</b>	None provided	

Ihr offizieller Vertriebspartner



**ALDERS**  
Indicate. Control. Connect.

ALDERS electronic GmbH  
Arnoldstraße 19  
47906 Kempen

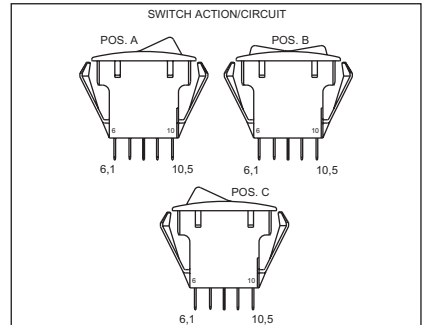
+49 2152 8955-0  
[vertrieb@alders.de](mailto:vertrieb@alders.de) / [www.alders.de](http://www.alders.de)

# SEALED, ILLUMINATED ROCKER SWITCHES

## K3 SERIES PART NUMBER CODE

Part Number Code Continued Below

<b>K3</b>	<b>X</b>	<b>X</b>	<b>XX</b>	<b>X</b>	<b>X</b>																																																												
<b>Base Options</b>		<b>Case Style/Button Color</b>		<b>Switch Action/Circuit</b>																																																													
<p><b>A.</b> With Keying Pin Only Standard Rating Silver Plate</p> <p><b>B.</b> Without Barriers or Pin Standard Rating Silver Plate</p> <p><b>C.</b> With Terminal Barriers Only Standard Rating Silver Plate</p> <p><b>D.</b> With Keying Pin Only Logic Level Rating Gold Plate</p> <p><b>E.</b> Without Barriers or Pin Logic Level Rating Gold Plate</p> <p><b>F.</b> With Terminal Barriers Only Logic Level Rating Gold Plate</p> <p><b>G.</b> With Keying Pin Only Standard Rating No Plate</p> <p><b>H.</b> Without Barriers or Pin Standard Rating No Plate</p> <p><b>J.</b> With Terminal Barriers Only Standard Rating No Plate</p>		<p><b>A.</b> Case With Drain Holes Button Color: Black</p> <p><b>B.</b> Case Without Drain Holes Button Color: Black</p> <p><b>C.</b> Case With Drain Holes Button Color: Red</p> <p><b>D.</b> Case Without Drain Holes Button Color: Red</p> <p><b>E.</b> Case With Drain Holes Button Color: White</p> <p><b>F.</b> Case Without Drain Holes Button Color: White</p> <p>NOTE: Switch case is black for all options below:</p> <p><b>1.</b> Case With Drain Holes Button Not Included</p> <p><b>2.</b> Case Without Drain Holes Button Not Included</p>		<table border="0"> <thead> <tr> <th>Position "A"</th> <th>Position "B"</th> <th>Position "C"</th> <th>Circuit</th> </tr> </thead> <tbody> <tr><td><b>1A.</b> 3-4</td><td>NONE</td><td>OFF</td><td>SPST</td></tr> <tr><td><b>2A.</b> 3-4/8-9</td><td>NONE</td><td>OFF</td><td>DPST</td></tr> <tr><td><b>1B.</b> 3-4</td><td>NONE</td><td>3-2</td><td>SPDT</td></tr> <tr><td><b>2B.</b> 3-4/8-9</td><td>NONE</td><td>3-2/8-7</td><td>DPDT</td></tr> <tr><td><b>1C.</b> (3-4)</td><td>NONE</td><td>OFF</td><td>SPST</td></tr> <tr><td><b>2C.</b> (3-4)/(8-9)</td><td>NONE</td><td>OFF</td><td>DPST</td></tr> <tr><td><b>1D.</b> (3-4)</td><td>NONE</td><td>3-2</td><td>SPDT</td></tr> <tr><td><b>2D.</b> (3-4)/(8-9)</td><td>NONE</td><td>3-2/8-7</td><td>DPDT</td></tr> <tr><td><b>1E.</b> (3-4)</td><td>OFF</td><td>(3-2)</td><td>SPDT</td></tr> <tr><td><b>2E.</b> (3-4)/(8-9)</td><td>OFF</td><td>(3-2)/(8-7)</td><td>DPDT</td></tr> <tr><td><b>1F.</b> 3-4</td><td>OFF</td><td>3-2</td><td>SPDT</td></tr> <tr><td><b>2F.</b> 3-4/8-9</td><td>OFF</td><td>3-2/8-7</td><td>DPDT</td></tr> <tr><td><b>1G.</b> (3-4)</td><td>OFF</td><td>3-2</td><td>SPDT</td></tr> <tr><td><b>2G.</b> (3-4)/(8-9)</td><td>OFF</td><td>3-2/8-7</td><td>DPDT</td></tr> </tbody> </table>		Position "A"	Position "B"	Position "C"	Circuit	<b>1A.</b> 3-4	NONE	OFF	SPST	<b>2A.</b> 3-4/8-9	NONE	OFF	DPST	<b>1B.</b> 3-4	NONE	3-2	SPDT	<b>2B.</b> 3-4/8-9	NONE	3-2/8-7	DPDT	<b>1C.</b> (3-4)	NONE	OFF	SPST	<b>2C.</b> (3-4)/(8-9)	NONE	OFF	DPST	<b>1D.</b> (3-4)	NONE	3-2	SPDT	<b>2D.</b> (3-4)/(8-9)	NONE	3-2/8-7	DPDT	<b>1E.</b> (3-4)	OFF	(3-2)	SPDT	<b>2E.</b> (3-4)/(8-9)	OFF	(3-2)/(8-7)	DPDT	<b>1F.</b> 3-4	OFF	3-2	SPDT	<b>2F.</b> 3-4/8-9	OFF	3-2/8-7	DPDT	<b>1G.</b> (3-4)	OFF	3-2	SPDT	<b>2G.</b> (3-4)/(8-9)	OFF	3-2/8-7	DPDT
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		<b>Light Source Type*</b>		<b>Light Circuit</b>																																																													
		<p><b>A.</b> No Illumination</p> <p><b>B.</b> 6V Incandescent</p> <p><b>C.</b> 12V Incandescent</p> <p><b>D.</b> 24V Incandescent</p> <p><b>E.</b> 125VAC Neon</p> <p><b>F.</b> 250VAC Neon</p> <p><b>G.</b> 2V Red LED</p> <p><b>H.</b> 2V Green LED</p> <p><b>J.</b> 2V Amber LED</p> <p><b>K.</b> 6V Red LED</p> <p><b>L.</b> 6V Green LED</p> <p><b>M.</b> 6V Amber LED</p> <p><b>N.</b> 12V Red LED</p> <p><b>P.</b> 12V Green LED</p> <p><b>Q.</b> 12V Amber LED</p> <p><b>R.</b> 24V Red LED</p> <p><b>S.</b> 24V Green LED</p> <p><b>T.</b> 24V Amber LED</p>		<table border="0"> <thead> <tr> <th>Circuit</th> <th>Terminal Connections</th> </tr> </thead> <tbody> <tr><td><b>A.</b> None</td><td>None</td></tr> <tr><td><b>B.</b> Dep. in "A"</td><td>1(-) &amp; 4(+)</td></tr> <tr><td><b>C.</b> Dep. in "C"</td><td>2(+) &amp; 5(-)</td></tr> <tr><td><b>D.</b> Ind. in "A"</td><td>1(-) &amp; 6(+)</td></tr> <tr><td><b>E.</b> Ind. in "C"</td><td>5(-) &amp; 10(+)</td></tr> <tr><td><b>F.</b> Dep. in "A"</td><td>1(-) &amp; 4(+)</td></tr> <tr><td><b>G.</b> Dep. in "C"</td><td>2(+) &amp; 5(-)</td></tr> <tr><td><b>H.</b> Ind. in "A"</td><td>1(-) &amp; 6(+)</td></tr> <tr><td><b>J.</b> Ind. in "C"</td><td>5(-) &amp; 10(+)</td></tr> </tbody> </table> <p>NOTE: Polarity only applies to LED circuits.</p>		Circuit	Terminal Connections	<b>A.</b> None	None	<b>B.</b> Dep. in "A"	1(-) & 4(+)	<b>C.</b> Dep. in "C"	2(+) & 5(-)	<b>D.</b> Ind. in "A"	1(-) & 6(+)	<b>E.</b> Ind. in "C"	5(-) & 10(+)	<b>F.</b> Dep. in "A"	1(-) & 4(+)	<b>G.</b> Dep. in "C"	2(+) & 5(-)	<b>H.</b> Ind. in "A"	1(-) & 6(+)	<b>J.</b> Ind. in "C"	5(-) & 10(+)																																								
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\*See appendix for complete voltage/current ratings table.

NOTE: ( ) denotes momentary action.

## K3 PART NUMBER CODE - CONTINUED FROM ABOVE

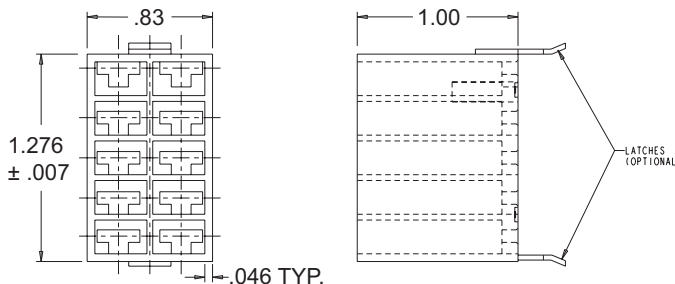
<b>X</b>	<b>X</b>	<b>XX</b>	<b>XX</b>	<b>X</b>	<b>X</b>	<b>X</b>																																										
<b>Lens Color</b>		<b>Legend Style</b>		<b>Legend Color</b>		<b>Legend Orientation</b>																																										
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**STOP HERE** 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 C807037-25

Order separately for use with switches without drain holes.

**Panel Plug**  
See Panel Plug (PP) page.

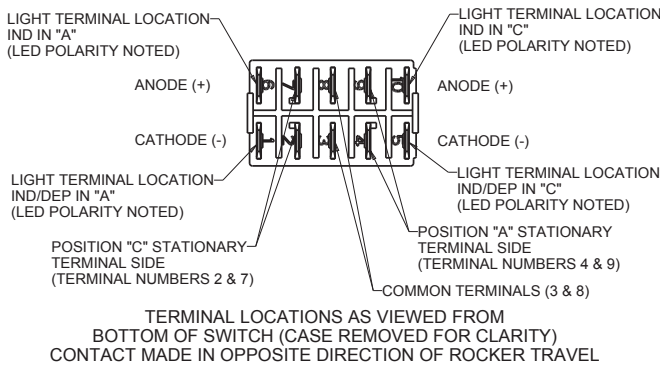
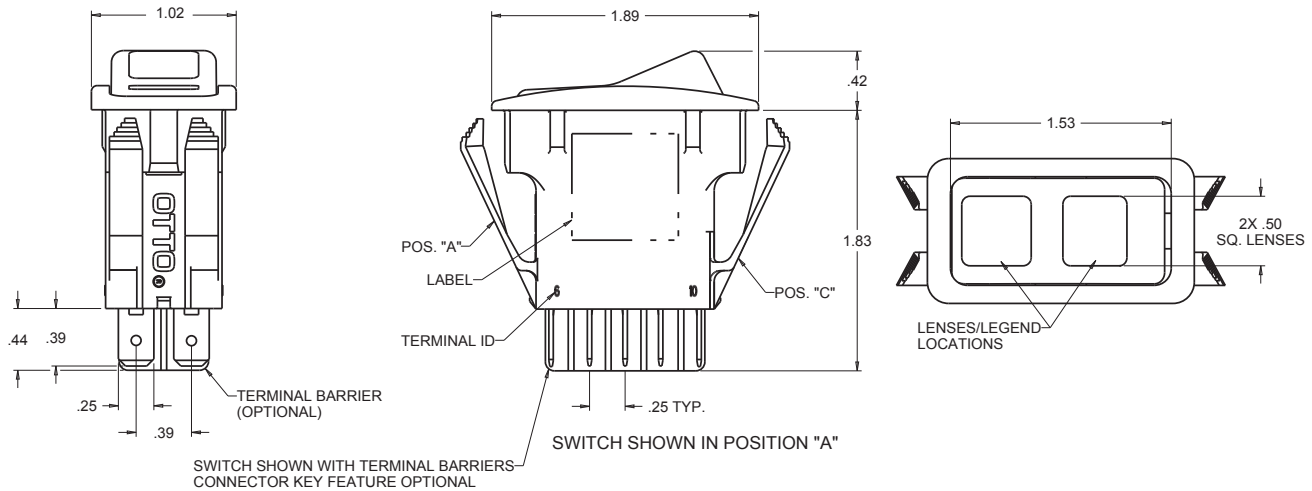
• K3 panel plugs available as shown in Panel Plugs (PP) section.

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

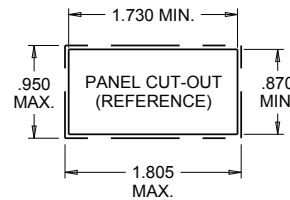
# SEALED, ILLUMINATED ROCKER SWITCHES

**K3**  
SEALED  
ROCKERS

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>SPECIAL CIRCUIT - 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>	<p>DPDT-(ON)-NONE-ON SCHEMATIC</p>	
<p><b>GENERAL SCHEMATIC INFORMATION</b></p> <ul style="list-style-type: none"> <li>○ INDICATES MAINTAIN ACTION (FIXED POSITION)</li> <li>▼ INDICATES MOMENTARY ACTION (AUTOMATIC RETURN POSITION)</li> </ul> <p><b>FOR OTHER LIGHTING SCHEMATICS REPLACE FOLLOWING SYMBOLS:</b></p> <ul style="list-style-type: none"> <li>⊕ INCANDESCENT (REPLACE RESISTOR &amp; LED)</li> <li>⊖ NEON (REPLACE LED)</li> </ul>	<p>DPDT-(ON)-OFF-(ON) SCHEMATIC</p>	<p>DPDT-ON-OFF-ON SCHEMATIC</p>	<p>DPDT-(ON)-OFF-ON SCHEMATIC</p>	<p>DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "A"</p>	<p>DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "C"</p>
<p>DPDT-ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "A"</p>	<p>DPDT-ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "C"</p>	<p>DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "A" &amp; "C"</p>	<p>DPDT-ON-NONE-ON SCHEMATIC W/DEPENDENT LED IN "A" &amp; INDEPENDENT LED IN "C"</p>	<p>DPDT-ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "A" &amp; DEPENDENT LED IN "C"</p>	<p>DPDT-ON-NONE-ON SCHEMATIC W/INDEPENDENT LED IN "A" &amp; "C"</p>