# SEALED, ILLUMINATED ROCKER SWITCHES

## 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 low 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 low 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
- Low level up to 20 amp switch
- Configurable Single Pole Triple Throw (SPTT) with external jumpers
- RoHS/WEEE/Reach compliant



Standard Character	stics/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		
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, black		
Button:	Thermoplastic		
Terminals/Contact:	Brass, silver alloy with silver plate, gold flash for low level		
Terminal Hardware:	K3 series recommended Quick Connect terminals: AMP 60253-2 for 12-16 AWG		
	AMP 42100-2 for 14-18 AV	VG	
Mounting Hardware:	None provided		

# ED, ILLUMINATED ROCKER SWITC

# **K3 SERIES PART NUMBER CODE**

# XX

#### **Base Options**

**K3** 

- 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 Low Level Rating **Gold Plate**
- E. Without Barriers or Pin Low Level Rating Gold Plate
- F. With Terminal Barriers Only Low 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

### Case Style/Button Color

X

- 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**

# **Switch Action/Circuit**

	Position	Position	Position	Circuit
	"A"	"B"	"C"	
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)	0FF	(3-2)	SPDT
2E.	(3-4)/(8-9)	0FF	(3-2)/(8-7)	DPDT
1F.	3-4	0FF	3-2	SPDT
2F.	3-4/8-9	OFF	3-2/8-7	DPDT
1G.	(3-4)	0FF	3-2	SPDT
2G.	(3-4)/(8-9)	0FF	3-2/8-7	DPDT

## **Light Source Type**

Light Source Type	Light Ci	rcuit
A. No Illumination B. 6V Incandescent	Circuit	Terminal Connection
C. 12V Incandescent	A. None	None
D. 24V Incandescent	B. Dep. in "A"	1(-) & 4(+)
E. 125VAC Neon	C. Dep. in "C"	2(+) & 5(-)
F. 250VAC Neon	<b>D.</b> Ind. in "A"	1(-) & 6(+)
G. 2V Red LED	E. Ind. in "C"	5(-) & 10(+
H. 2V Green LED	F. Dep. in "A"	1(-) & 4(+)
J. 2V Amber LED	Dep. in "C"	2(+) & 5(-)
K. 6V Red LED	G. Dep. in "A"	1(-) & 4(+)
L. 6V Green LED	Ind. in "C"	5(-) & 10(+
M.6V Amber LED	H. Ind. in "A"	1(-) & 6(+)
N. 12V Red LED	Dep. in "C"	2(+) & 5(-)
P. 12V Green LED	<ol><li>J. Ind. in "A"</li></ol>	1(-) & 6(+)
Q. 12V Amber LED	Ind. in "C"	5(-) & 10(+
R. 24V Red LED		

**Part Number Code Continued Below** 

X

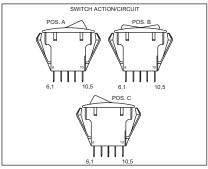
S. 24V Green LED NOTE: Polarity only applies to T. 24V Amber LED LED circuits

#### Position Position Position

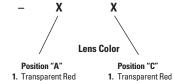
	"A"	"B"	"C"	Circuits
1H.	3-4/8-9	8-9	OFF	ON/ON/OFF
1J.	3-4/8-9	8-9	NONE	ON/ON/NONE
1K.	(3-4)/(8-9)	8-9	OFF	(ON)/ON/OFF
1L	(3-4)/(8-9)	8-9	NONE	(ON)/ON/NONE
1M.	3-4/8-9	3-2/8-9	3-2/8-7	ON/ON/ON
1N.	(3-4)/(8-9)	3-2/8-9	3-2/8-7	(ON)/ON/ON
1P.	(3-4)/(8-9)	3-2/8-9	(3-2)/(8-7)	(ON)/ON/(ON)
2R.	3-4/8-9	OFF/8-9	OFF/OFF	ON/OFF/OFF
				ON/ON/OFF
2S.	(3-4)/8-9	OFF/8-9	OFF/OFF	(ON)/OFF/OFF
				ON/ON/OFF

**Special Circuits** 

NOTE: () denotes momentary action.



# **K3 PART NUMBER CODE - CONTINUED FROM ABOVE**



# 1. Transparent Red

- 2. Transparent Green
- 3. Transparent Amber ①
- 4. Clear 1
- 5. Translucent White ②
- Z. No Lens 3
- 2. Transparent Green
- 3. Transparent Amber ①
- 4. Clear 1
- 5. Translucent White ②
- Z. No Lens 3

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.

- 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".

.83 1.276 ±.007

without legends. Example: K3AAIFNH-44

STOP HERE for

lighted switches

# XX XX **Legend Style**

Position "A" ZZ. No Legend

Position "C" ZZ. 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).

# **Legend Color**

Position "C"

Daylight White 4

**1.** Red

2. Black

9. White

B. Backlight/

D. Backlight/

Z. No Legend

Deadfront 4

Position "A" **1.** Red

Special

- 2. Black
- 9. White
- B. Backlight/ Daylight White 4
- D. Backlight/ Deadfront 4
- Z. No Legend
- For legend color "B" and "D", please use button color "A" & "B" and lens color "Z" for each position.



#### **Legend Orientation** Position Position

"A" "C" 1. Std.

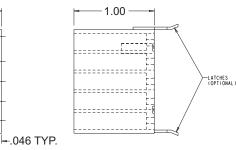
**2**. 90°

**3.** 180°

4. 270°

STOP HERE for unlighted switches without legends.

Example: K3AAIFAA



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

# **K3 Connector**

P/N 801775-2A Without Latches P/N 801775-2B With Latches

### **Panel Seal Gasket** P/N 807037

Order separately for use with switches without drain holes.

## Panel Plug

See Panel Plug (PP) page 167.

• K3 panel plugs available as shown on page 185.

# SEALED, ILLUMINATED ROCKER SWITCHES

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

