SEALED, ILLUMINATED ROCKER SWITCHES

ATTRACTIVE & RUGGED FOR WET & DUSTY ENVIRONMENTS

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**
- **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 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	
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
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 AWG
Mounting Hardware:	None provided

SEALED, ILLUMINATED ROCKER SWITCHES

K3 SERIES PART NUMBER CODE

Part Number Code Continued Below

K3 X X XX X X

Base Options

- **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

- **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 "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

Special Circuits

	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

NOTE: ( ) denotes momentary action.

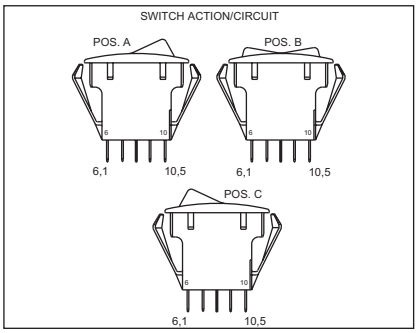
Light Source Type

- **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

Light Circuit

	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" Dep. in "C"	1(-) & 4(+) 2(+) & 5(-)
G.	Dep. in "A" Ind. in "C"	1(-) & 4(+) 5(-) & 10(+)
H.	Ind. in "A" Dep. in "C"	1(-) & 6(+) 2(+) & 5(-)
J.	Ind. in "A" Ind. in "C"	1(-) & 6(+) 5(-) & 10(+)

NOTE: Polarity only applies to LED circuits.



K3 PART NUMBER CODE - CONTINUED FROM ABOVE

– X X XX XX X X X

Lens Color

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

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.

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".

STOP HERE for unlighted switches without legends.

Example: K3AAIFAA

Legend Style

Position "A"	Position "C"
ZZ. No Legend	**ZZ.** No Legend

NOTE: For all other legend options, refer to the legend table on page 162, find the two digit code and enter the code in the appropriate position(s).

STOP HERE for lighted switches without legends.

Example: K3AAIFNH-44

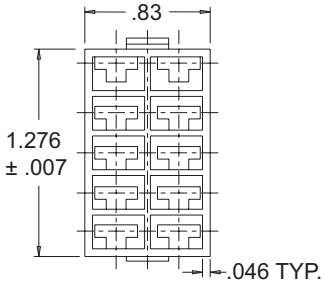
Legend Color

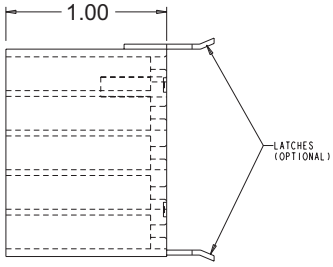
Position "A"	Position "C"
1. Red	**1.** Red
2. Black	**2.** Black
9. White	**9.** White
B. Backlight/ Daylight White ④	**B.** Backlight/ Daylight White ④
D. Backlight/ Deadfront ④	**D.** Backlight/ Deadfront ④
Z. No Legend	**Z.** No Legend

④ For legend color "B" and "D", please use button color "A" & "B" and lens color "Z" for each position.

Legend Orientation

	Position "A"	Position "C"
1. Std.	A	C
2. 90°	A	C
3. 180°	A	C
4. 270°	A	C





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.

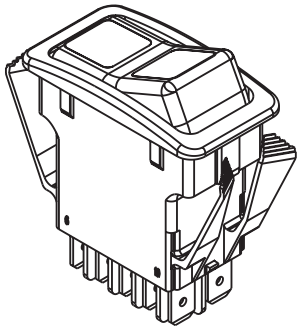
• K3 panel plugs available as shown on page 160.

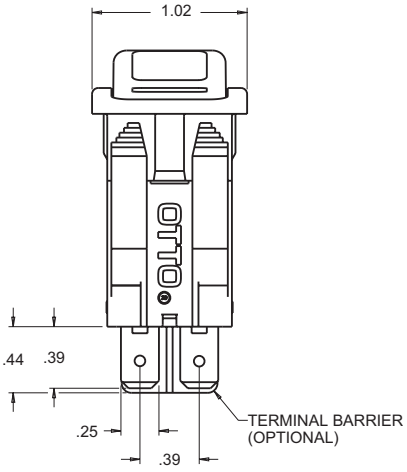
Recommended Quick Connect Terminals:
AMP 60253-2 for 12-16 AWG
AMP 42100-2 for 14-18 AWG

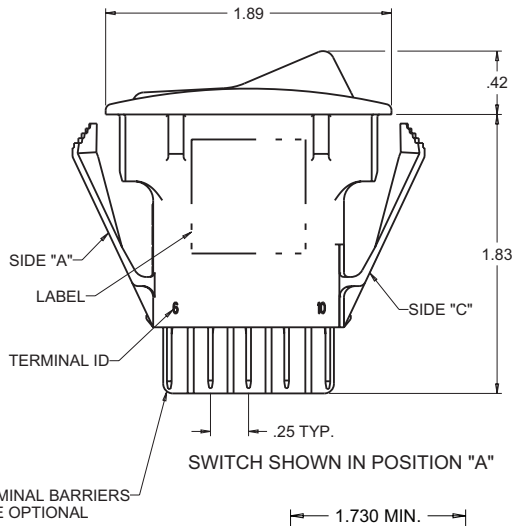
Specifications Subject To Change Without Notice

SEALED, ILLUMINATED ROCKER SWITCHES

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

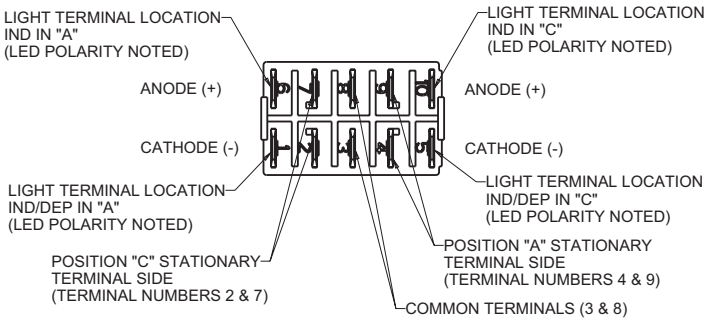
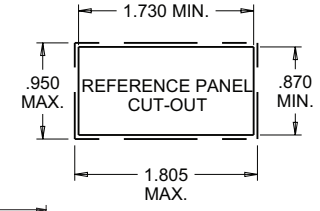
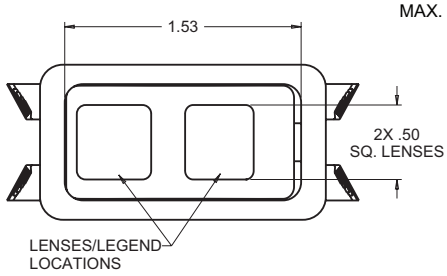
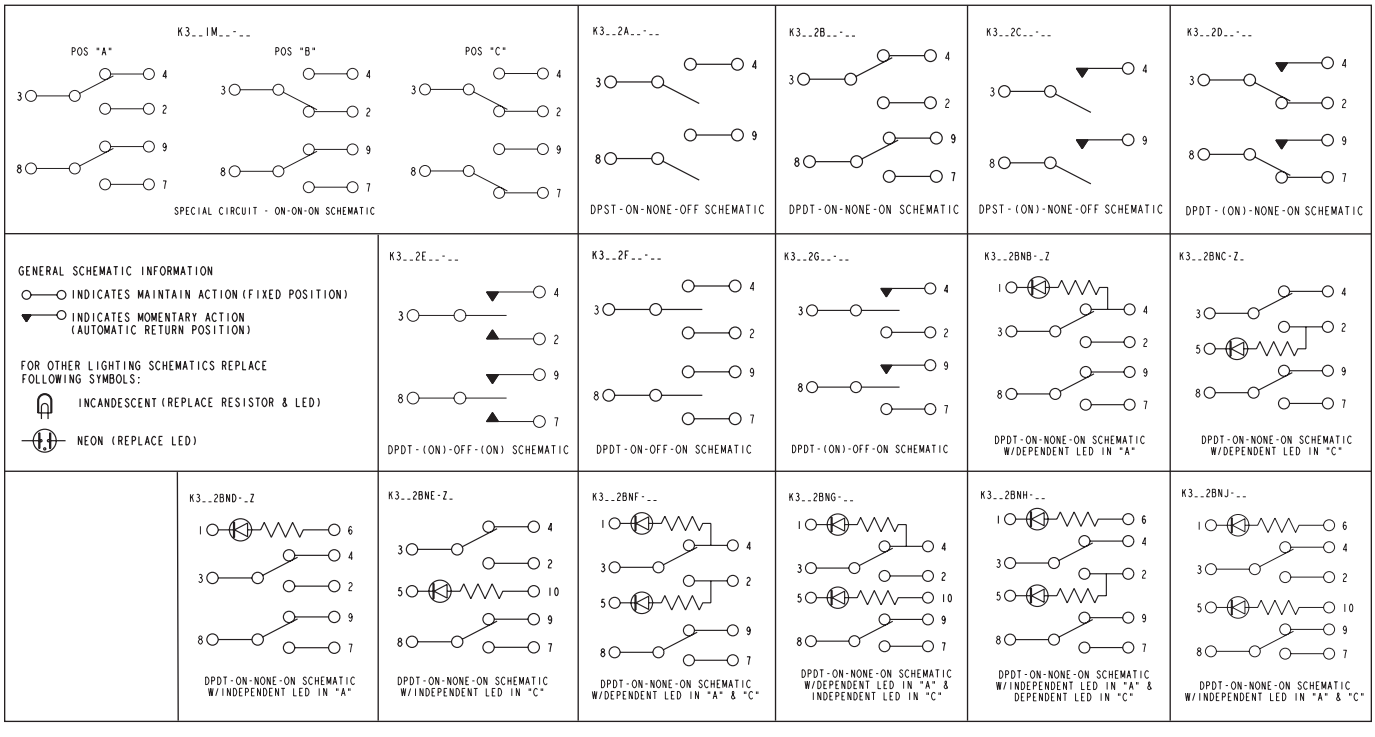






SWITCH SHOWN IN POSITION "A"

SWITCH SHOWN WITH TERMINAL BARRIERS
CONNECTOR KEY FEATURE OPTIONAL



TERMINAL LOCATIONS AS VIEWED FROM
BOTTOM OF SWITCH (CASE REMOVED FOR CLARITY)
CONTACT MADE IN OPPOSITE DIRECTION OF ROCKER TRAVEL