SEALED, ILLUMINATED ROCKER SWITCHES

ATTRACTIVE & RUGGED FOR WET & DUSTY ENVIRONMENTS

The OTTO K5 series 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.

K5 series sealed rocker switches snap into industry-standard panel cutouts. Choose illuminated and printed legends, thru-panel drain option and switching compatibility from logic level up to 20 amps.

The K5 series 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 K5 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**
- **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**
- **Soft Touch button available**
- **RoHS compliant**

Raised Bars Shown

Standard Characteristics/Ratings:

ELECTRICAL RATINGS:

Load	Sea Level @ 28VDC	Sea Level @ 125VAC, 60/400Hz
Resistive	20A	16A
Inductive	15A	15A
Lamp	5A	5A
Motor	0.5HP @ 110VAC	
DWV	1000Vrms 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
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
Button:	Thermoplastic
Terminals/Contact:	Brass, silver alloy with silver plate, gold flash for logic level
Terminal Hardware:	K5 series recommended Quick Connect terminals: AMP 60253-2 for 12-16 AWG AMP 42100-2 for 14-18 AWG
Mounting Hardware:	None provided

Your official representative

ALDERS®
Indicate. Control. Connect.

ALDERS electronic GmbH
Arnoldstraße 19
47906 Kempen - Germany

+49 2152 8955-0
sales@alders.de / www.alders.de

SEALED, ILLUMINATED ROCKER SWITCHES

SNAP-IN PANEL MOUNTING

K5 SERIES PART NUMBER CODE

Part Number Code Continued Below

K5 X X 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, 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 Barrier or Pin, Standard Rating, No Plate
- **J.** With Terminal Barriers Only, Standard Rating, No Plate

Rocker Color*/Style

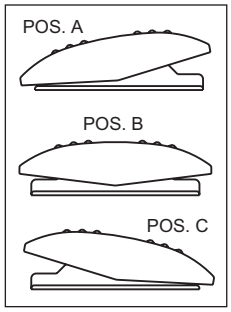
- **A.** Black Plastic Rocker
- **B.** Black "Soft Touch" Rocker
- **C.** Red Plastic Rocker
- **D.** Red "Soft Touch" Rocker
- **E.** White Plastic Rocker
- **F.** White "Soft Touch" Rocker
- **H.** Green Plastic Rocker
- **J.** Orange Plastic Rocker
- **K.** Blue Plastic Rocker
- **L.** Gray "Soft Touch" Rocker
- **M.** Gray Plastic Rocker

*Additional colors available. Contact factory.

Rocker Features

Position "A"	Position "C"
1. No Feature	**1.** No Feature
2. Lens	**2.** Lens
3. Raised Bars	**3.** Raised Bars
4. Raised Lit Bars	**4.** Raised Lit Bars

NOTE: Raised Lit Bars are available with the Soft Touch rocker styles. Soft Touch rockers require same color lenses/lit bars for both positions.



NOTE: All code combinations are not feasible. Consult factory for product availability.

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.

***See appendix for complete voltage/ratings table**

K5 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	**Z.** No Lens

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 LEDs to be used with translucent white lens.

STOP HERE for lighted switches without legends.

Example: K5AA331FNH-44

Legend Style

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

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).

Legend Color

Position "A"	Position "C"
1. Red	**1.** Red
2. Black	**2.** Black
9. White	**9.** White
B. Backlight/ Daylight White ③	**B.** Backlight/ Daylight White ③
D. Backlight/ Deadfront ③	**D.** Backlight/ Deadfront ③
Z. No Legend	**Z.** No Legend

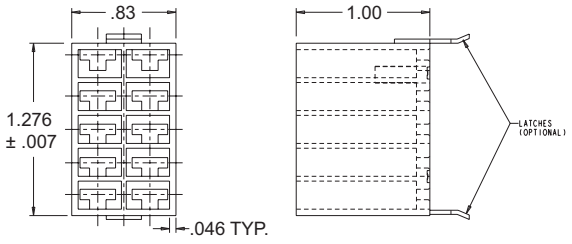
③ Only available on Rocker Style "A" & Rocker Features "1" and lens color "Z" for each position.

Legend Orientation

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

STOP HERE for unlighted switches without legends.

Example: K5AA331BAA



K5 Connector
P/N C801775-2A Without Latches
P/N C801775-2B With Latches

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

Panel Seal Gasket
Silicone: P/N C807109-25-1
Buna-N: P/N C807618-25-1

• K5 panel plugs available as shown in Panel Plugs (PP) section.

Specifications Subject To Change Without Notice

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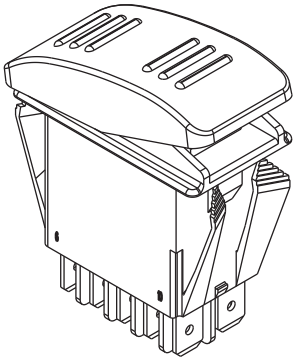
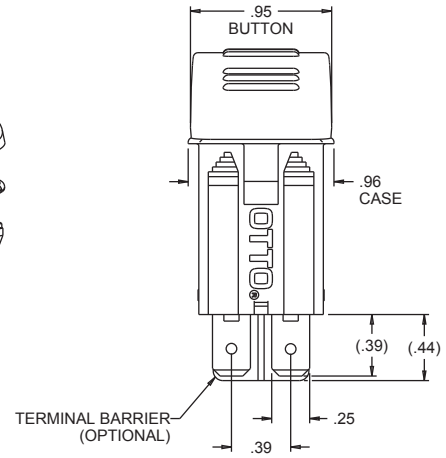
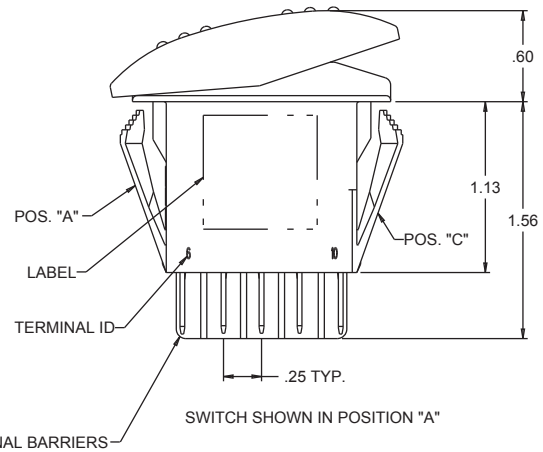
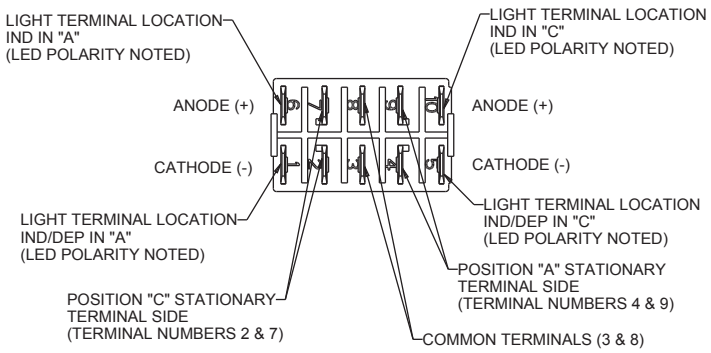
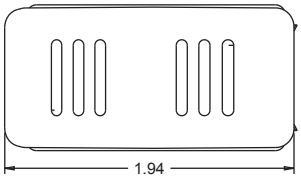




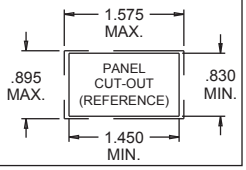
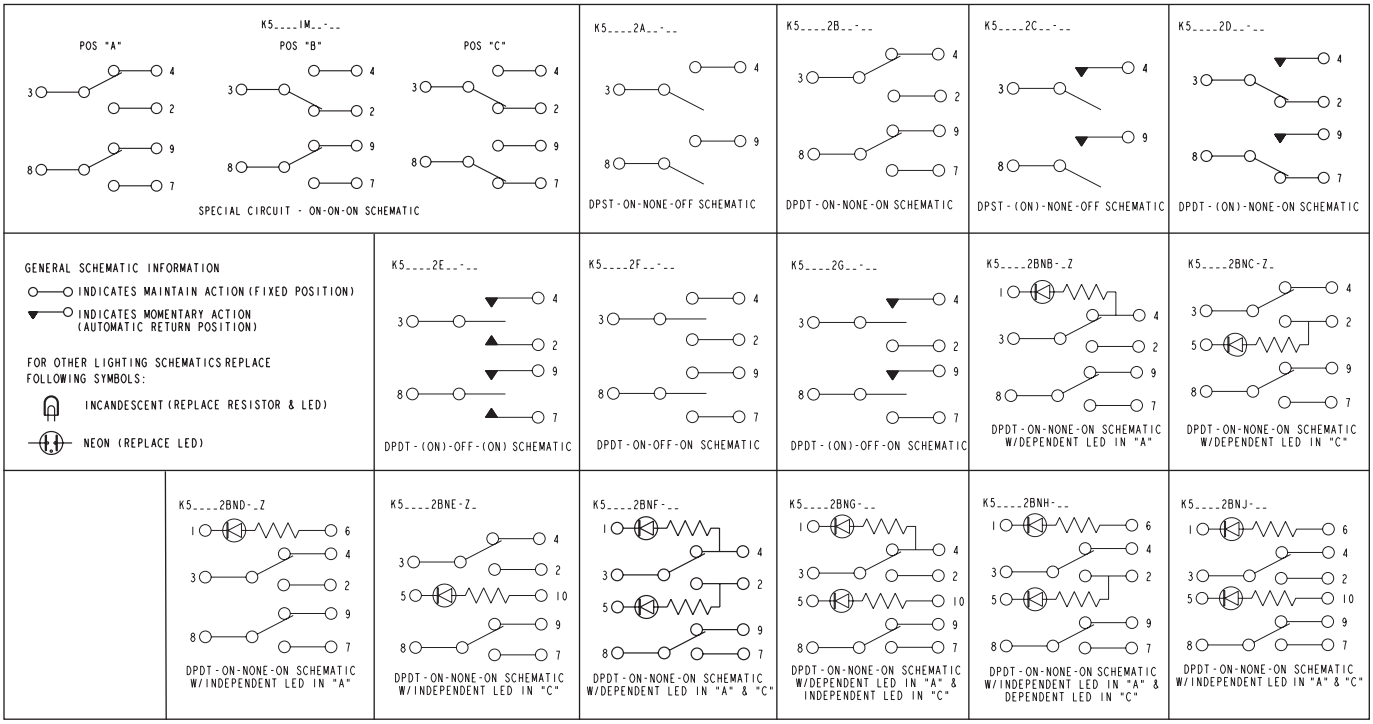




TERMINAL LOCATIONS AS VIEWED FROM BOTTOM OF SWITCH
(CASE REMOVED FOR CLARITY)
CONTACT MADE IN OPPOSITE DIRECTION OF ROCKER TRAVEL



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	.830	.863	.895
LENGTH	1.450	1.513	1.575