

ATTRACTIVE & RUGGED FOR WET & DUSTY ENVIRONMENTS

The 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 compliant



Standard Characteristics/Ratings:

ELECTRICAL RATINGS:

Load	Sea Level @ 12/28VDC, 60Hz	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

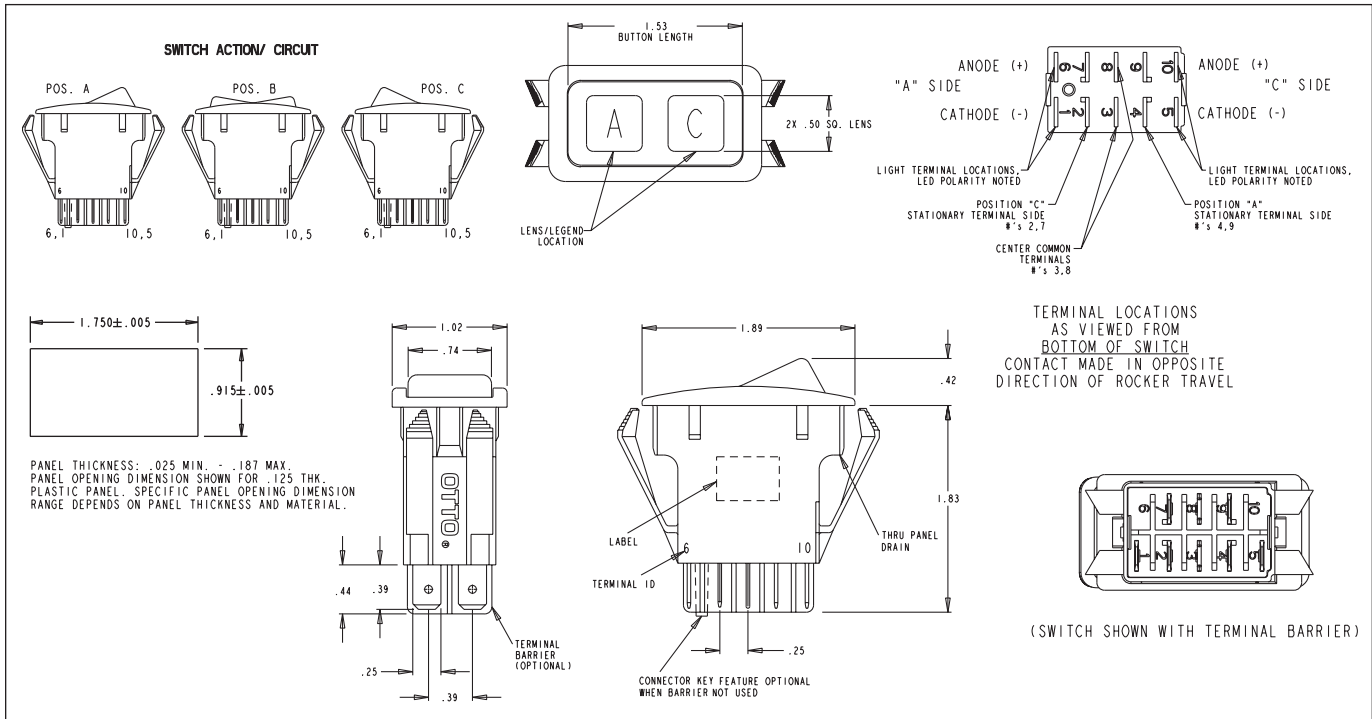
SNAP-IN PANEL MOUNTING

Standard Legends Per SAE Specifications

A1  ANCHOR	K2  UNLOCK	P5  BILGE BLOWER
B1  BATTERY	L1  LIGHT	R1  LIFT
B2  ELECTRIC POWER	L2  MASTER LIGHTING SWITCH	R2  LOWER
C1  AC/COOLING SYSTEMS	L3  HEADLIGHTS	R3  UP
C2  DEHUMIDIFIER	L4  HEADLIGHTS-LOW/ DIPPED BEAM	R4  DOWN
C3  HEATER/INTERIOR HEATING	L5  HEADLIGHTS-HIGH/ UPPER BEAM	R5  RIGHT
D1  WINDSHIELD DEFROSTER	L6  PARKING LIGHT	R6  LEFT
D2  REAR WINDOW DEFROSTER	L7  WORK LAMP	R7 FWD FORWARD
D3  MIRROR DEFROSTER	L8  WORK LAMP	R8 REV REVERSE
E1  ENGINE/START	L9  INTERIOR DOME LIGHT	S1  RADIO
E2  ENGINE/STOP	M1  BEACON	S2  MUTE
E3  ON/START	M2  HAZARD/POSITION LIGHTS	T1  FAST
E4  OFF/STOP	M3  CLEARANCE LIGHTS	T2  SLOW
E5 ON ON	M4  SIDE MARKER LIGHT	T3  TRIM TAB/ TRIMMING OPERATION
E6 OFF OFF	M5  RUNNING LIGHTS (UNDER POWER)	T4  TRANSMISSION
E7  ENGINE ELECTRIC PREHEAT	M6  ANCHOR LIGHT	V1  VENTILATING/AC FAN
E8  ENGINE-GAS INJECTION	M7  RUNNING/ANCHOR LIGHTS	W1  WINDSHIELD WIPER
F1  FRONT FOG LIGHTS	M8  SEARCH LIGHT	W2  WINDSHIELD-WASHER
F2  REAR FOG LIGHTS	M9  LEFT TURN SIGNAL	W3  WINDSHIELD-WASHER/WIPER
G1  FUEL	MA  RIGHT TURN SIGNAL	W4  REAR WINDOW WIPER
H1  HORN	P1  BILGE PUMP #1	W5  REAR WINDOW-WASHER
H2  HORN REAR	P2  BILGE PUMP #2	W6  REAR WINDOW-WASHER/WIPER
K1  LOCK	P3  BILGE PUMP #3	ZZ NO LEGEND
	P4  BILGE PUMP	

For legends not shown, please consult an OTTO representative.

SNAP-IN PANEL MOUNTING



K3 SERIES

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	3-2/8-9	OFF	ON/ON/OFF
1J.	3-4/8-9	3-2/8-9	None	ON/ON/None
1K.	(3-4)/(8-9)	3-2/8-9	OFF	(ON)/ON/OFF
1L.	(3-4)/(8-9)	3-2/8-9	None	(ON)/ON/None
1M.	3-4/8-9	3-2/8-9	3-2/7-8	ON/ON/ON
1N.	(3-4)/(8-9)	3-2/8-9	3-2/7-8	(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
2S.	(3-4)/8-9	OFF/8-9	OFF/OFF	ON/ON/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"	1(-) & 4(+)
Dep. in "C"	2(+) & 5(-)
G. Dep. in "A"	1(-) & 4(+)
Ind. in "C"	5(-) & 10(+)
H. Ind. in "A"	1(-) & 6(+)
Dep. in "C"	2(+) & 5(-)
J. Ind. in "A"	1(-) & 6(+)
Ind. in "C"	5(-) & 10(+)

NOTE: Polarity only applies to LED circuits.

SEALED, ILLUMINATED ROCKER SWITCHES

K3
SEALED
ROCKERS

ATTRACTIVE & RUGGED FOR WET & DUSTY ENVIRONMENTS

K3..1M...	K3..2A...	K3..2B...	K3..2C...	K3..2D...
GENERAL SCHEMATIC INFORMATION ○ INDICATES MAINTAIN ACTION (FIXED POSITION) ▼ INDICATES MOMENTARY ACTION (AUTOMATIC RETURN POSITION) FOR OTHER LIGHTING SCHEMATICS REPLACE FOLLOWING SYMBOLS: INCANDESCENT (REPLACE RESISTOR & LED) NEON (REPLACE LED)	K3..2E...	K3..2F...	K3..2G...	K3..2BNC-Z
K3..2BND-Z	K3..2BNE-Z	K3..2BNF...	K3..2BNG...	K3..2BNH...

PART NUMBER CODE

Lens Color		Legend Style		Legend Color		Legend Orientation	
Position "A"	Position "C"	Position "A"	Position "C"	Position "A"	Position "C"	Position "A"	Position "C"
1. Transparent Red	1. Transparent Red	ZZ. No Legend	ZZ. No Legend	1. Red	1. Red	1. Std.	A C
2. Transparent Green	2. Transparent Green			2. Black	2. Black	2. 90°	A C
3. Transparent Amber ①	3. Transparent Amber ①			9. White	9. White	3. 180°	A C
4. Clear ①	4. Clear ①			B. Backlight/Daylight White ④	B. Backlight/Daylight White ④	4. 270°	A C
5. Translucent White ②	5. Translucent White ②			D. Backlight/Deadfront ④	D. Backlight/Deadfront ④		
Z. No Lens ③	Z. No Lens ③			Z. No Legend	Z. No Legend		

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.

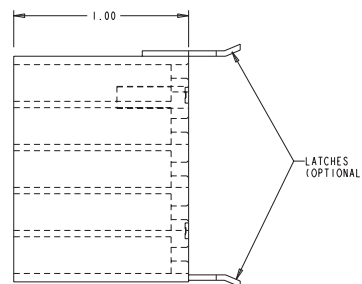
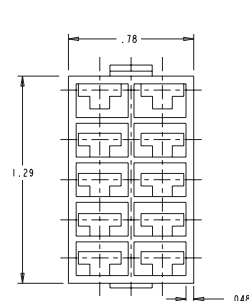
- ① Recommended for neon lamps.
② Special Order: Ultra bright green LED to be used with translucent white lenses.
③ Legend colors "B" & "D" are only available on lens color "Z".

STOP HERE for
lighted switches
without legends.

Example: K3AAIFNH-44

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

P/N K300000040 Black Unsealed
P/N K300000030 Black Sealed