The K4 series snap-in toggle switches are rugged, high performance sealed switches designed for use under severe conditions found in marine, appliance, heavy equipment and industrial control applications. They are totally sealed to IP68S and IP69K so the switch can withstand direct water spray and submersion. With the optional panel seal gasket, the K4 is also panel sealed.

The K4 series is offered in single and double pole configurations. Toggle action includes 2 and 3-position, momentary and maintained operation in a combination of 13 variations.
Mounting is simple and quick; snaps into panel from the front. The OTTO snap-in design supports a variety of panel thicknesses with just one cutout size specified.

Existing unsealed applications are easily upgraded to sealed functionality because the K series drops into existing panel cutouts.

A choice of models are offered to handle current from 16 amps to logic level electronic switching levels.

## Features:

- Withstands direct water spray
- Sealed to IP68S and IP69K
- Fits industry standard panel openings for drop-in replacement of panel sealed $\&$ unsealed switches
- Snap-in feature accommodates a wide range of panel cutouts
- Switches up to 16 amps
- UV \& solvent resistant
- Withstands extreme shock \& vibration
- Legends \& illuminated function indicators available
- 2 \& 3-position, momentary, maintained action \& center OFF
- RoHS compliant


LED, Neon or Incandescent Illumination

| Standard Characteristics/Ratings: |  |  |  |
| :---: | :---: | :---: | :---: |
| ELECTRICAL RATINGS: |  |  |  |
| Load | Sea Level <br> @ 28VDC | Sea Level @125VAC, | Cycles |
| Resistive | 16A | 5A | 25,000 |
| Resistive | 10A | N/A | 50,000 |
| Inductive | 7A | 2A | 25,000 |
| DWV | 1000Vrms except across light terminals |  |  |
| Logic Level | $10 \mathrm{~mA} @ 5 V D C, \max$ D.C. logic level ratings $\quad 100,000$ (void if logic level load(s) exceeded at any time) |  |  |
| Electrical Life: | See Rating |  |  |
| LIGHTING: |  |  |  |
| Light Source | Rating |  |  |
| Incandescent | (VDC) 6V, 12V, 24V |  |  |
| Neon | (VAC) $125 \mathrm{~V}, 250 \mathrm{~V}$ |  |  |
| LED | (VDC) $2 \mathrm{~V}, 6 \mathrm{~V}, 12 \mathrm{~V}, 24 \mathrm{~V}$ |  |  |
| Mechanical Life: | 100,000 cycles |  |  |
| Seal: | IP68S and IP69K |  |  |
| Operating Temp Range: $-30^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |  |  |  |
| MATERIALS: |  |  |  |
| Case: | Thermoplastic |  |  |
| Toggle: | Stainless steel |  |  |
| Terminals/Contact: | Brass, silver alloy with silver plate, gold plate for logic level |  |  |
| Terminal Hardware: | Screws and lockwashers provided when applicable K4 series recommended Quick Connect terminals: <br> AMP 60253-2 for 12-16 AWG <br> AMP 42100-2 for 14-18 AWG |  |  |
| Mounting Hardware: | None provided |  |  |



## PANEL THICKNESS AND MOUNTING OPENING GUIDELINES:

PANEL THICKNESS RANGE OF . $025-.105$ (GASKET RECOMMENDED)
PANEL THICKNESS RANGE OF .105-. 187 (GASKET NOT REQUIRED)


K4 SERIES PART NUMBER CODE

Optional Panel Gasket:
P/N C807038-25-1 0.062" thickness
P/N C807038-25-2 0.031" thickness
K4 connector P/N C801765
(See Connector page in Hardware \& Accessories section)

- K4 panel plugs available as shown in Panel Plugs (PP) section.

NOTES:

- No momentary switches with dependent lights.
- Neon lamps only to be coded with clear or amber lenses.
- LED lenses must be clear or same color as LED.
- No legends on lamp side of switch.
- No dependent light in OFF positions
- All legends printed on actuators without lens(es) will be white except actuator codes

| X |  |  |
| :---: | :---: | :---: |
| $\backslash$ |  |  |
| Light Type* |  |  |
| A. No Light | Position | Position |
| B. 6 V Incandescent | "A" | "B" |
| C. 12 V Incandescent | A. No Lens | A. No Lens |
| D. 24 V Incandescent | B. Red | B. Red |
| E. 125VAC Neon | C. Green | C. Green |
| F. 250VAC Neon | D. Amber | D. Amber |
| G. 2 V Red LED | E. Clear | E. Clear |

J. 2V Amber LED
K. 6V Red LED
L. 6V Green LED
M.6V Amber LED
N. 12V Red LED
P. 12 V Green LED
0. 12V Amber LED
R. 24 V Red LED
S. 24 V Green LED
T. 24V Amber LED


## ORDERING INFORMATION

Example: K4AAKEEABA specifies Q.C. terminals, standard rating; bat handle; DPST two position momentary ON, maintained OFF; 125VAC neon light; clear lens in positions " A ", no lens in position "C"; dependent light ON in position " $A$ ", wired to terminals $1 \& 7$; no legend.
 $C, F, J, M \& R$.

- All legends printed on lenses will be white except on clear lens(es) will be black.
*See Appendix for complete voltage/current ratings table.


## SEALED, ILLUMINATED SNAP-IN TOGGLE

## K4 SCHEMATICS



