

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 so the switch can withstand direct water spray and submersion, even during operation. Sealed to IP68S with an optional panel seal available, the K4 is also sealed to IP69K.

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 low 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/WEEE/Reach compliant



Single & Double Pole

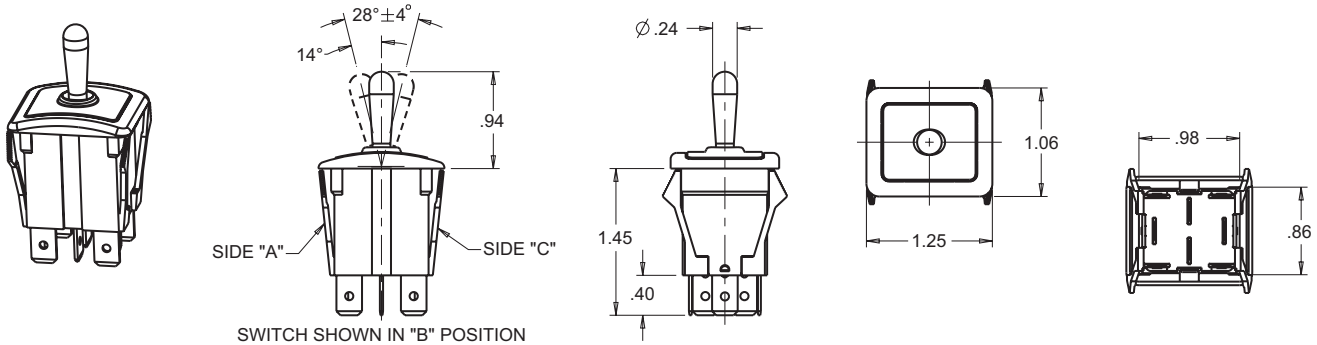
LED, Neon or  
Incandescent Illumination

| Standard Characteristics/Ratings:    |                                                                                                                                                             |                  |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| ELECTRICAL RATINGS:                  |                                                                                                                                                             |                  |
| Load                                 | Sea Level @ 28VDC<br>or 125/250VAC, 60Hz                                                                                                                    | Cycles           |
| Resistive                            | 16A                                                                                                                                                         | 25,000           |
| Resistive                            | 10A                                                                                                                                                         | 50,000           |
| Inductive                            | 10A                                                                                                                                                         | 25,000           |
| Lamp                                 | 5A                                                                                                                                                          | 25,000           |
| Motor                                | 0.5HP                                                                                                                                                       | 25,000           |
| DWV                                  | 1050Vrms except across light terminals                                                                                                                      |                  |
| Low Level                            | 10mA @ 30mV                                                                                                                                                 | 100,000          |
| Electrical Life:                     |                                                                                                                                                             | See Rating Chart |
| 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: -30°C to +85°C |                                                                                                                                                             |                  |
| MATERIALS:                           |                                                                                                                                                             |                  |
| Case:                                | Thermoplastic                                                                                                                                               |                  |
| Toggle:                              | Stainless steel                                                                                                                                             |                  |
| Terminals/Contact:                   | Brass, silver alloy with silver plate, gold plate for low level                                                                                             |                  |
| Terminal Hardware:                   | Screws and lockwashers provided when applicable<br>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                                                                                                                                               |                  |

# SEALED, ILLUMINATED SNAP-IN TOGGLE

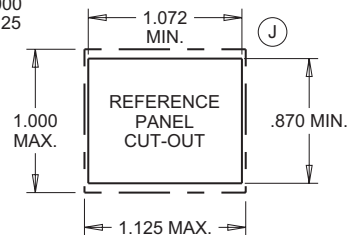
**K4**  
SNAP-IN  
TOGGLES

LOW COST, SNAP-IN TOGGLE FOR WET & DUSTY ENVIRONMENTS, 1 & 2 POLES



| TERMINAL STYLES (.032 THICK) |               |        |
|------------------------------|---------------|--------|
| SCREW                        | QUICK CONNECT | SOLDER |
|                              |               |        |

**MOUNTING OPENING:** (J)  
 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 .870 .937 1.000  
 LENGTH 1.072 1.099 1.125



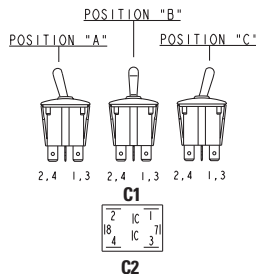
## K4 SERIES PART NUMBER CODE

| Terminal Style/<br>Switch Rating | Actuator<br>Style | Switch Action/Circuit |                 |                 | Circuit | Light Type          | Lens Color      |                 | Light/Circuit Location                                           | Legend & Orientation                                             |
|----------------------------------|-------------------|-----------------------|-----------------|-----------------|---------|---------------------|-----------------|-----------------|------------------------------------------------------------------|------------------------------------------------------------------|
| A. Quick Connect/<br>Standard    | A. Bat<br>Handle  | Position<br>"A"       | Position<br>"B" | Position<br>"C" |         |                     | Position<br>"A" | Position<br>"B" |                                                                  |                                                                  |
| B. Screw/Standard                |                   | A. 1-C1               | NONE            | OFF             | SPST    | A. No Light         |                 |                 | A. No Light                                                      | A. No Legend                                                     |
| C. Solder/Standard               |                   | B. 1-C1               | NONE            | 2-C1            | SPDT    | B. 6V Incandescent  |                 |                 | B. Dependent Light<br>ON in position "A"<br>Wired to terms 1 & 7 | B. Dependent Light<br>ON in position "A"<br>Wired to terms 1 & 7 |
| D. Quick Connect/<br>Low Level   |                   | C. (1-C1)             | NONE            | OFF             | SPST    | C. 12V Incandescent | B. Red          | B. Red          | C. Dependent Light<br>ON in position "C"<br>Wired to terms 7 & 8 | C. Dependent Light<br>ON in position "C"<br>Wired to terms 7 & 8 |
| E. Screw/Low Level               |                   | D. (1-C1)             | NONE            | 2-C1            | SPDT    | D. 24V Incandescent | C. Green        | C. Green        | D. Independent Light<br>at position "A"<br>Wired to terms 7 & 8  | D. Independent Light<br>at position "A"<br>Wired to terms 7 & 8  |
| F. Solder/Low Level              |                   | E. (1-C1)             | OFF             | (2-C1)          | SPDT    | E. 125VAC Neon      | D. Amber        | D. Amber        | E. Independent Light<br>at position "C"<br>Wired to terms 4 & 8  | E. Independent Light<br>at position "C"<br>Wired to terms 4 & 8  |
|                                  |                   | F. 1-C1               | OFF             | 2-C1            | SPDT    | F. 250VAC Neon      | E. Clear        | E. Clear        | F. Dependent Light<br>ON in position "A"<br>Wired to terms 1 & 7 | F. Dependent Light<br>ON in position "A"<br>Wired to terms 1 & 7 |
|                                  |                   | G. (1-C1)             | OFF             | 2-C1            | SPDT    | G. 2V Red LED       |                 |                 | G. Independent Light<br>at position "C"<br>Wired to terms 7 & 8  | G. Independent Light<br>at position "C"<br>Wired to terms 7 & 8  |
|                                  |                   | H. 1-C1/3-C2          | NONE            | OFF             | DPST    | H. 2V Green LED     |                 |                 | H. Independent Light<br>at position "A"<br>Wired to terms 7 & 8  | H. Independent Light<br>at position "A"<br>Wired to terms 7 & 8  |
|                                  |                   | J. 1-C1/3-C2          | NONE            | 2-C1/4-C2       | DPDT    | J. 2V Amber LED     |                 |                 | I. Independent Light<br>at position "A"<br>Wired to terms 7 & 8  | I. Independent Light<br>at position "A"<br>Wired to terms 7 & 8  |
|                                  |                   | K. (1-C1)/(3-C2)      | NONE            | OFF             | DPST    | K. 6V Red LED       |                 |                 | J. Independent Light<br>at position "C"<br>Wired to terms 3 & 7  | J. Independent Light<br>at position "C"<br>Wired to terms 3 & 7  |
|                                  |                   | L. (1-C1)/(3-C2)      | NONE            | 2-C1/4-C2       | DPDT    | L. 6V Green LED     |                 |                 | K. Independent Light<br>at position "A"<br>Wired to terms 4 & 8  | K. Independent Light<br>at position "A"<br>Wired to terms 4 & 8  |
|                                  |                   | M. (1-C1)/(3-C2)      | OFF             | (2-C1)/(4-C2)   | DPDT    | M. 6V Amber LED     |                 |                 | L. Independent Light<br>at position "C"<br>Wired to terms 7 & 8  | L. Independent Light<br>at position "C"<br>Wired to terms 7 & 8  |
|                                  |                   | N. 1-C1/3-C2          | OFF             | 2-C1/4-C2       | DPDT    | N. 12V Red LED      |                 |                 | M. Independent Light<br>at position "A"<br>Wired to terms 1 & 7  | M. Independent Light<br>at position "A"<br>Wired to terms 1 & 7  |
|                                  |                   | P. (1-C1)/(3-C2)      | OFF             | 2-C1/4-C2       | DPDT    | P. 12V Green LED    |                 |                 | N. Independent Light<br>at position "C"<br>Wired to terms 4 & 8  | N. Independent Light<br>at position "C"<br>Wired to terms 4 & 8  |
|                                  |                   |                       |                 |                 |         | Q. 12V Amber LED    |                 |                 | O. Independent Light<br>at position "A"<br>Wired to terms 7 & 8  | O. Independent Light<br>at position "A"<br>Wired to terms 7 & 8  |
|                                  |                   |                       |                 |                 |         | R. 24V Red LED      |                 |                 | P. Independent Light<br>at position "C"<br>Wired to terms 7 & 8  | P. Independent Light<br>at position "C"<br>Wired to terms 7 & 8  |
|                                  |                   |                       |                 |                 |         | S. 24V Green LED    |                 |                 | Q. Independent Light<br>at position "A"<br>Wired to terms 1 & 7  | Q. Independent Light<br>at position "A"<br>Wired to terms 1 & 7  |
|                                  |                   |                       |                 |                 |         | T. 24V Amber LED    |                 |                 | R. Independent Light<br>at position "C"<br>Wired to terms 4 & 8  | R. Independent Light<br>at position "C"<br>Wired to terms 4 & 8  |

NOTE: ( ) denotes momentary action.

**Optional Panel Gasket:**  
 P/N 807038-1 .062" thickness  
 P/N 807038-2 .031" thickness

K4 Connector P/N C801765



### 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 C, F, J, M & R.
- All legends printed on lenses will be white except on clear lens(es) will be black.

NOTE: LED anode (+) terminal number shown in **bold**.

D = Dependent Light  
 I = Independent Light

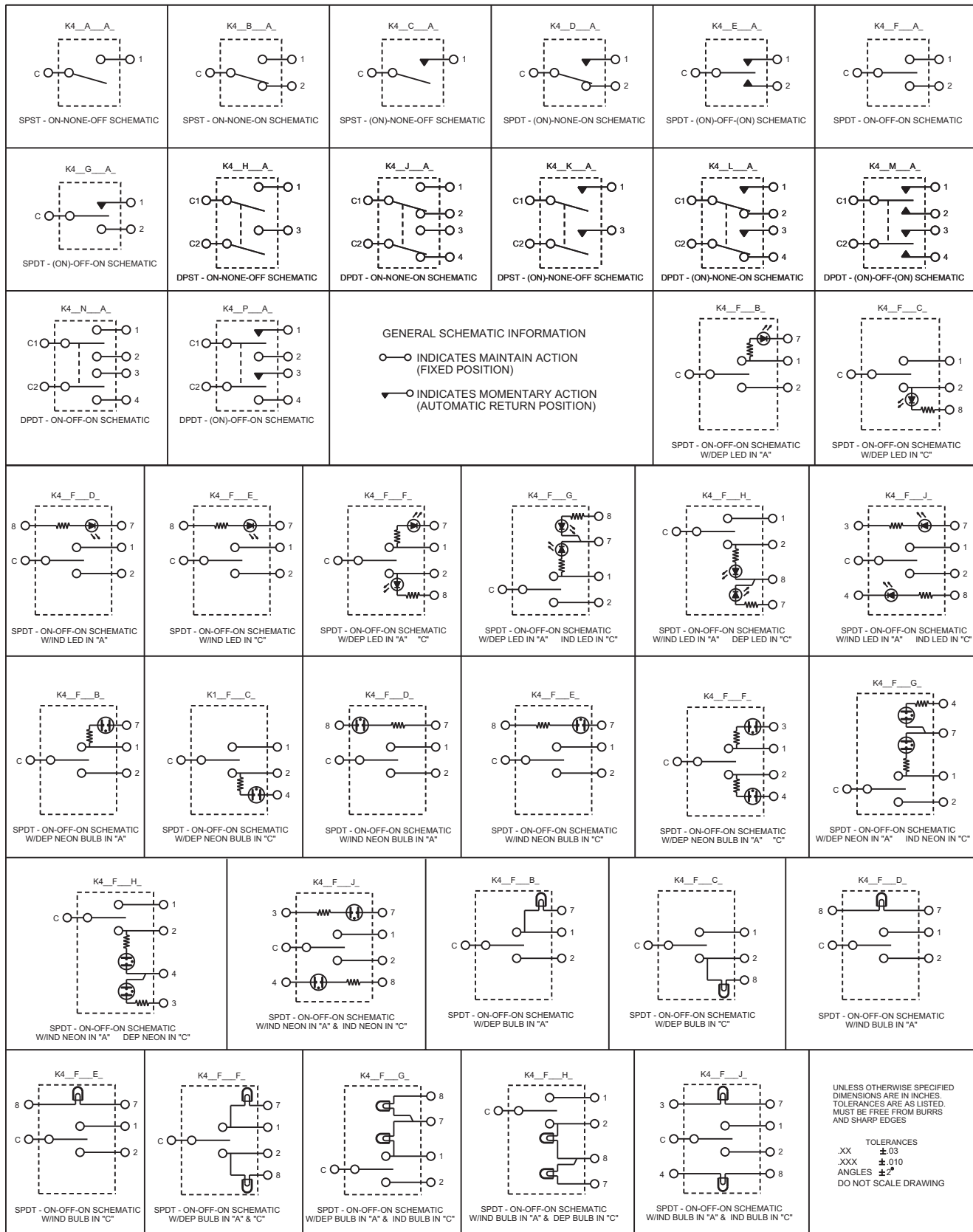
① All legends are white. Legend cannot be on the same side as the lens.

## 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.

- K4 panel plugs available as shown on page 167.

## K4 SCHEMATICS





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.