

BP Series Side Actuated DIP Switches



DIP

Features/Benefits

- Side actuated contacts for right angle applications
- When actuated, contacts remain below top of switch
- Ideal for applications where space is limited
- Available with tape seal for most washing processes
- RoHS compliant

Typical Applications

- Address switch for industrial controls
- Logic switching for computers and peripherals
- Function controlling for numerous applications



Specifications

SWITCH FUNCTION: SPST – 1, 2, 3, 4, 5, 6, 7, 8, 10 & 12.

CONTACT RATING:

Carry: 100 mA max.

Switch: 100 mA max. @ 5 V DC or 25 mA max. @ 24 V DC.

MECHANICAL AND ELECTRICAL LIFE: 2,000 make-and-break cycles each circuit, models with gold contacts (K contact material).

1,000 cycles, models with tin contacts (Y contact material).

CONTACT RESISTANCE: Below 50 milliohms initial @ 2-4 V DC, 100mA.

INSULATION RESISTANCE: $10^9 \Omega$ min.

DIELECTRIC STRENGTH: 500 V RMS min. @ sea level between adjacent terminals..

STORAGE & OPERATING TEMPERATURE: -20°C to 60°C.

SOLDERABILITY: Per MIL-STD -202F Method 208D or EIA RS-186E method 9 (1 hours steam aging).

PACKAGING: Switches supplied in rigid dispensing tubes in full-tube quantities only; this may affect order quantity. Number of switches per tube varies with model. Switch position 1 denotes pin no. 1. All switch actuators in "OFF" position, standard.

Materials

CASE: Glass filled polyester (PET), flame retardant (UL 94V-0).

COVER: Anodized aluminum.

ACTUATOR: Glass filled polyester (PET), flame retardant (UL 94V-0).

CONTACTS: K contact material: Gold over nickel over phosphor bronze. Y contact material: Phosphor bronze, matte-tin plated.

TERMINALS: Phosphor bronze, matte-tin plated.

TERMINAL SEAL: Epoxy.

TAPE SEAL: Metalized polyester.

Note: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

How To Order

Our easy Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.

Model	Switch Function	Contact material	Seal
BP01 SPST, 1 position	NONE Throw	K Gold	E Epoxy terminal seal, no tape seal
BP02 SPST, 2 positions	R Reverse throw	Y Matte-tin	T Epoxy terminal seal, removable tape actuator seal, splash resistant
BP03 SPST, 3 positions			
BP04 SPST, 4 positions			
BP05 SPST, 5 positions			
BP06 SPST, 6 positions			
BP07 SPST, 7 positions			
BP08 SPST, 8 positions			
BP10 SPST, 10 positions			
BP12 SPST, 12 positions			

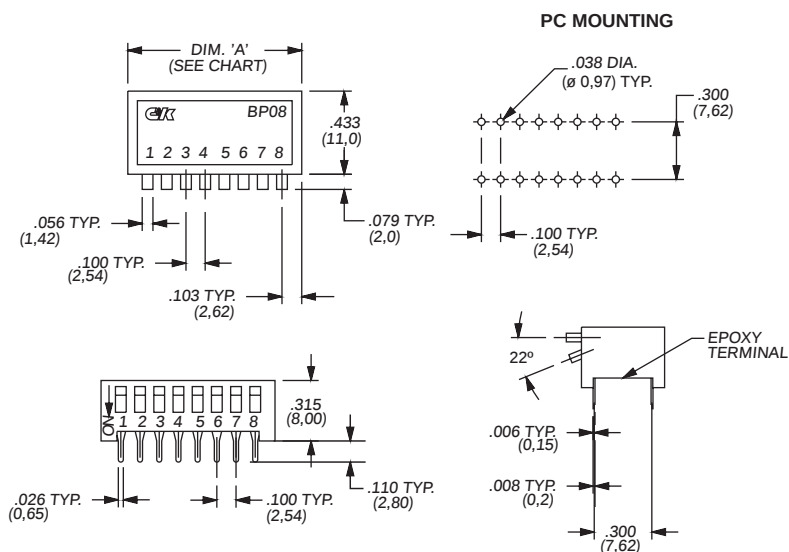


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



DIP

The diagram shows a 4-bit shift register. It consists of four square cells in a row, representing the register stages. The first three cells are connected to three square flip-flop symbols, which are connected in series. The output of the third flip-flop is connected to the input of the fourth cell. The first cell is connected to a data input line on the left.

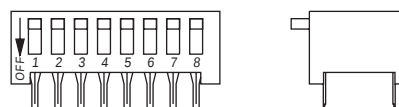


Schematic

SPST



R REVERSE THROW



RATINGS

¹ CONTACTS Gold over Nickel Plate over Phosphor Bronze.

² CONTACTS: Matte-tin Plate over Phosphor Bronze.

³ TERMINALS: Matte-tin Plate over Phosphor Bronze..

T EPOXY TERM

**C&K**