

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.

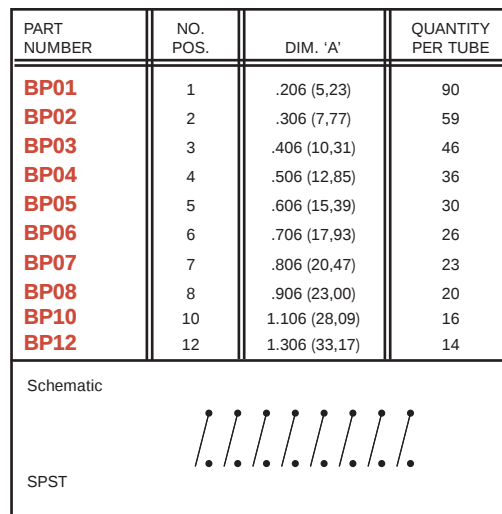
Model	Switch Function	Contact material	Seal
BP01 SPST, 1 position	NONE Throw	K Gold	E Epoxy terminal seal, no tape seal
BP02 SPST, 2 positions	R Reverse throw	Y Matte-tin	T Epoxy terminal seal, removable tape actuator seal, splash resistant
BP03 SPST, 3 positions			
BP04 SPST, 4 positions			
BP05 SPST, 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

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The diagram shows a 4-bit shift register. It consists of four square cells representing flip-flops. The first cell on the left is labeled 'Q3' and has a '0' inside. The second cell is labeled 'Q2' and has a '1' inside. The third cell is labeled 'Q1' and has a '1' inside. The fourth cell on the right is labeled 'Q0' and has a '1' inside. Arrows indicate the data flow from Q3 to Q2, from Q2 to Q1, and from Q1 to Q0. There is also an input arrow pointing into the Q0 cell from the right.



The diagram shows a top-down view of the 8-channel input module. It consists of a rectangular base with eight vertical slots, numbered 1 through 8 from left to right. To the left of slot 1 is a label 'OFF' with a downward-pointing arrow. Each slot contains a vertical component, likely a reed switch, with a small rectangular base at the bottom. Wires extend from the bottom of each slot. To the right of the module is a separate rectangular component, possibly a connector or a part of the control system.

Third Angle Projection

C&K