

Thru-Hole DIP Switches

SERIES 79A

Linear Action Circuit Selector

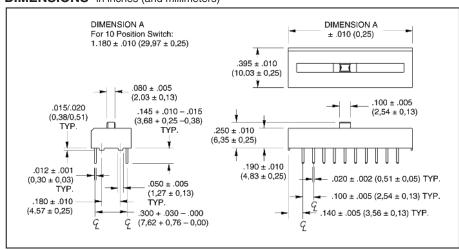
FEATURES

- Single-Setting Programming
- Isolated or Bussed Circuits
- 10 Positions
- 125 mA, 6 Vdc, 2000 Cycles
- RoHS Compliant

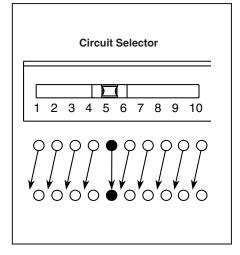
Circuit Selector

Each position is a single isolated circuit, which connects the two terminals across the switch package. The movable contact is non-shorting.

DIMENSIONS in inches (and millimeters)



CIRCUITRY



SPECIFICATIONS

Electrical Ratings

Make-and-break Current Rating: 2,000 cycles at 10 mA, 50 mVdc; 2,000 cycles at 125 mA, 6 Vdc; 2,000 cycles at 50 mA, 30 Vdc.

Contact Resistance: (measured at 10 mA, 50 mVdc) Coded Switches: 60 mohms maximum initially. Other Switches: 50 mohms maximum initially. After LIfe: 100 mohms maximum

Insulation Resistance (at 100 Vdc):

Between adjacent isolated contacts: Initial:5,000 Mohms; 1,000 Mohms minimum after life. Across open contacts: Initial: 5,000 Mohms; 1,000 Mohms minimum after life.

Dielectric Strength: Between adjacent isolated contacts and also across open contacts. Initially: 750 Vac: 500 Vac after life

Contact Carry Rating: 2 Amps with a maximum contact temperature rise of 20°C

Mechanical Ratings

Mechanical Life: 4,000 cycles maximum. Note: a cycle is one complete operation, back and forth through all switch positions.

Vibration Resistance: 10 to 2,000 Hz at 15G or 0.060" double amplitude, per MIL-STD-202F per MIL-5-83504; Method 213, Condition A. No damage and no contact openings exceeding 10 mS (Method 204, Test Condition B).

Shock Resistance: 509, 11 mS, half sine; no damage and no openings exceeding 10 mS (Method 213, Test Condition A).

Environmental Rating

Operating Temperature: -40°C to +85°C Storage Temperature: -55°C to +85°C Moisture Resistance: 240 hours with temperature cycling and polarization, per MIL-

STD-202F, Method 305

Materials and Finishes

Nonconductive Parts: Plastic UL94V-O Shorting Arm: Phosphor bronze, gold plate over nickel plate

Base Contacts: Copper alloy, gold plate over nickel plate

Terminals: Copper alloy, matte tin plated over nickel barrier.

Potting Material: Epoxy

Tape and Seal Packaging

Seal Strength: Per MIL-STD-202, Method 112. 30 seconds at 125° hot Fluorocarbon Solderability: Per MIL-STD-202, Method 208.

Tape Seal: Polyester film

Available from your local Grayhill Distributor.

For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.

ORDERING INFORMATION

Number of Positions	Type of Circuit Code	Number per Tube	Part Number*
10	Circuit Selector	9	79A10T

^{*}A top tape seal is required for switches that are machine soldered or heavily cleaned after hand soldering. To order top seal versions, add "S" before the "T" in the Grayhill part number.

Thru-Hole DIP Switches

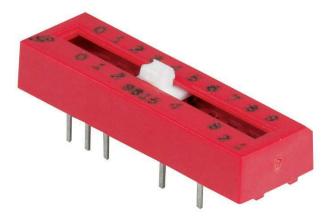


SERIES 79B

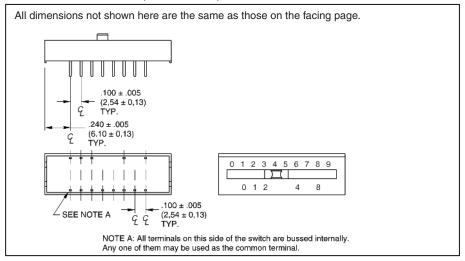
Linear Action, Coded Output

FEATURES

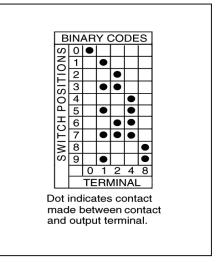
- Reliable Switching, Positive Detent
- Codes in BCD and Hexadecimal
- True Zero Output
- 10 Positions
- 2000 Cycle Life
- Up to 60,000 Detent Operations
- RoHs Compliant



DIMENSIONS In inches (and millimeters)



CIRCUITRY



SPECIFICATIONS

Electrical Ratings

Make-and-break Current Rating: 2,000 cycles at 10 mA, 50 mVdc; 2,000 cycles at 125 mA, 6 Vdc; 2,000 cycles at 50 mA, 30 Vdc.

Contact Resistance: 100 mohms maximum after life, measured at 10 mA dc and 50 mV (open circuit). Initial values are 60 mohms maximum for coded switches.

Insulation Resistance (at 100 Vdc):

Between adjacent isolated contacts: Initial: 5,000 Mohms minimum; After Life: 1,000 Mohms minimum

Across open contacts: Initial: 5,000 Mohms minimum; After Life: 1,000 Mohms minimum

Dielectric Strength: Between adjacent isolated contacts and across open contacts. Initial: 750 Vac; After Life: 500 Vac

Contact Carry Rating: 2 amps with a maximum contact temperature rise of 20°C.

Mechanical Ratings

Mechanical Life: 4,000 cycles maximum. Note: a cycle is one complete operation, back and forth through all switch positions.

Vibration Resistance: 10 to 2,000 Hz at 15G or 0.060" double amplitude; no damage and no contact openings exceeding 10 mS (Method 204, Test Condition B).

Shock Resistance: 509, 11 mS, half sine; no damage and no openings exceeding 10 microseconds (Method 213, Test Condition A).

Environmental Ratings

Refer to MIL-STD-202F per MIL-S-83504 Operating Temperature: -40°C to +85°C Storage Temperature: -55°C to +85°C Moisture Resistance: 240 hours with temperature cycling and polarization, per MIL-STD-202F, Method 305

Materials and Finishes Nonconductive Parts: Plastic UL94V-O Shorting Arm: Phosphor bronze, gold plate over nickel plate

Base Contacts: Copper alloy, gold plate over nickel plate

Terminals: Copper alloy, matte tin plated over nickel barrier

Potting Material: Epoxy

Tape Seal and Packaging

Tape Seal: Polyester film

ORDERING INFORMATION

Number of Positions	Type of Circuit Code	Number per Tube	Part Number*			
10	Binary Code Decimal	9	79B10T			

*A top tape seal is required for switches that are machine soldered or heavily cleaned after hand soldering. To order top seal versions, add "S" before the "T" in the Grayhill part number.

Available from your local Grayhill Distributor.

For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.

DIP Switch Options and Accessories



OPTIONS

Position Identification Line Option

For Series 76RSB, 76RSC, 76RSD, & 90B A line can be added to the recessed rocker or

A line can be added to the recessed rocker or Series 90 slide actuator to provide positive identification of the actuator position. To order, add L as a final suffix to the part number. For example, 76RSB08 becomes 76RSB08L; and, 90B08S becomes 90B08SL.

Available from a local Grayhill Distributor.

Other Switch Markings

For Series 76, 78, & 90

We can mark your part number or other wording on the switch, often at no charge. For some markings there will be a nominal charge for tooling plus a set-up charge. In addition, there is a marking charge per side per switch. Add it to the unit price and discount it accordingly.

To order, contact Grayhill.



ACCESSORIES

Protective Cover Accessory

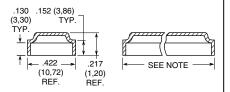
For Series 76, & 78

Rigid, clear plastic cover fits all but toggle actuated switches. It provides a top cover for less strenuous cleaning, serves as a dust cover in dirty environments, and provides protection against accidental actuation.

Material: 76,78, only-Polycarbonate.

Purchase as a separate item. Check length of the desired DIP Switch, and then select from the ordering information on this page.

Available from a local Grayhill Distributor.



Note: For length, add .042 "(1,07 MM) to length of DIP switch.



DIPSTICK Accessory

For all series

Pen-sized plastic DIPSTICK has a tapered end for actuating DIP Switches.

Part Number 90-DIPSTICK

Available from a local Grayhill Distributor

ORDERING INFORMATION

Length Inches	Protective Cover Part Number
0.280	76P02
0.380	76P03
0.480	76P04
0.580	76P05
0.680	76P06
0.780	76P07
0.880	76P08
0.980	76P09
1.080	76P10
1.180	79P10
1.780	79P16



Available from your local Grayhill Distributor. For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.