

NDI & DM SERIES SPST STANDARD DIP SWITCHES

FEATURES

High reliability.
Self-cleaning contacts.
Multi- positions.
Process compatible with tape seal.
Dual in-line .100" x .300" term. spacing.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

GENERAL SPECIFICATIONS

ELECTRICALS

| | |
|--------------------------------------|--|
| Electrical life | 2000 cycles min. per switch @ 24 VDC, 25 mA |
| Contact rating, non-switching | 100 mA at 50 VDC |
| Contact rating, switching | 25 mA at 24 VDC |
| Contact resistance at current 100 mA | 50 milliohms max. initial - 100 milliohms max. after life test |
| Insulation resistance at 500 VDC | 100 Megohms minimum |
| Dielectric strength | 500 VAC for 1 minute |
| Capacitance | 5 pf. max. between adjacent terminals |

MECHANICALS, THERMALS

| | |
|-----------------------------|--|
| Mechanical life | 2000 cycles min. per switch |
| Operating force | 1000 grams max. |
| Vibration | 10-55 Hz. per MIL-STD-202F METHOD 201A |
| Shock | 50 G (peak value) for 11 msec. per MIL-STD-202F, METHOD 213B |
| Operating temperature range | -20°C to 85°C |

SOLDERING & CLEANING RECOMMENDATIONS*

| | |
|---------------------------|---|
| Hand soldering | 350°C max. for 2 seconds max. (30 watt iron max.) |
| Wave soldering | 260°C max. for 5 seconds max. |
| Cleaning (with tape seal) | Spray wash from top side only. |

* Note: keep switches in "OFF" position during soldering and cleaning for best results

MATERIALS

| | |
|---------------|---|
| Base & Cover | NDI: UL94V-O, glass fiber filled PBT, black DM: UL94V-O, glass fiber filled PPS, black |
| Actuators | UL94V-O, Nylon, white |
| Contacts | Gold over nickel plated copper alloy |
| Terminals | Gold plated brass. |
| Term. Sealing | Molded-in |
| Tape seal | Kapton |

PACKAGING

DIP switches are shipped in standard IC tubes with all actuators in the "OFF" position.
Tape & reel packaging per EIA available for DMR models (see next page).

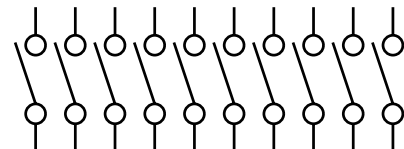
SWITCH CROSS SECTIONS

Double
contact system



DI & DM

SCHEMATIC (TYPICAL)



See tabulations on following pages for
number of positions available (10 shown)

**NDI Series
Machine
Insertable P**



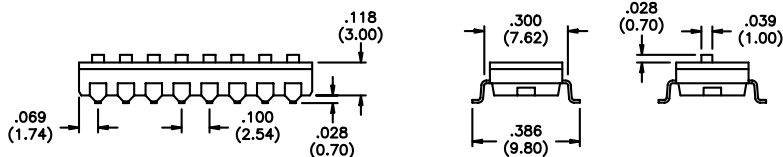
| Actuator | Squared terminals | | Spread terminals | | No. of Pos. | 'A' Dim. +.008/-0.000" (+0.2/-0.0mm) |
|----------|-----------------------------|--------------------------|-----------------------------|--------------------------|-------------|--------------------------------------|
| | MODEL NO. with no tape seal | MODEL NO. with tape seal | MODEL NO. with no tape seal | MODEL NO. with tape seal | | |
| Raised | NDI01H | n/a | NDI01S | n/a | 1 | .137 (3,48) |
| | NDI02H | n/a | NDI02S | n/a | 2 | .237 (6,02) |
| | NDI04H | n/a | NDI04S | n/a | 4 | .437 (11,10) |
| | NDI06H | n/a | NDI06S | n/a | 6 | .637 (16,18) |
| | NDI08H | n/a | NDI08S | n/a | 8 | .837 (21,26) |
| Recessed | NDI10H | n/a | NDI10S | n/a | 10 | 1.037 (26,34) |
| | NDIR01H | n/a | NDIR01S | n/a | 1 | .137 (3,48) |
| | NDIR02H | NDIR02HT | NDIR02S | NDIR02ST | 2 | .237 (6,02) |
| | NDIR04H | NDIR04HT | NDIR04S | NDIR04ST | 4 | .437 (11,10) |
| | NDIR06H | NDIR06HT | NDIR06S | NDIR06ST | 6 | .637 (16,18) |
| | NDIR08H | NDIR08HT | NDIR08S | NDIR08ST | 8 | .837 (21,26) |
| | NDIR10H | NDIR10HT | NDIR10S | NDIR10ST | 10 | 1.037 (26,34) |

P Auto-insertable using equipment from Amistar, Dynapert, Panasert, Northeastern Tool, Universal and others.

n/a = not available.

P

**DM Series
Surface
Mount P**



| Actuator Style | MODEL NO. with no tape seal | MODEL NO. with tape seal | No. of Pos. | 'A' Dimension +.008/-0.000" (+0.2/-0.0mm) |
|-----------------|-----------------------------|--------------------------|-------------|---|
| Raised Actuator | DM01 | n/a | 1 | .137 (3,48) |
| | DM02 | n/a | 2 | .237 (6,02) |
| | DM03 | n/a | 3 | .337 (8,56) |
| | DM04 | n/a | 4 | .437 (11,10) |
| | DM05 | n/a | 5 | .537 (13,64) |
| | DM06 | n/a | 6 | .637 (16,18) |
| | DM07 | n/a | 7 | .737 (18,72) |
| | DM08 | n/a | 8 | .837 (21,26) |
| | DM09 | n/a | 9 | .937 (23,80) |
| | DM10 | n/a | 10 | 1.037 (26,34) |
| | DM12 | n/a | 12 | 1.237 (31,42) |
| | Recessed Actuator | DMR01 | n/a | 1 |
| DMR02 | | DMR02T | 2 | .237 (6,02) |
| DMR03 | | DMR03T | 3 | .337 (8,56) |
| DMR04 | | DMR04T | 4 | .437 (11,10) |
| DMR05 | | DMR05T | 5 | .537 (13,64) |
| DMR06 | | DMR06T | 6 | .637 (16,18) |
| DMR07 | | DMR07T | 7 | .737 (18,72) |
| DMR08 | | DMR08T | 8 | .837 (21,26) |
| DMR09 | | DMR09T | 9 | .937 (23,80) |
| DMR10 | | DMR10T | 10 | 1.037 (26,34) |
| DMR12 | | DMR12T | 12 | 1.237 (31,42) |

For tape & reel packaging on DMR models only, add 'TR' to model number - example: DMR08TTR. Note- tape & reel packaging is available only with tape seal models. 900 switches per reel.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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