# 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.

#### **GENERAL SPECIFICATIONS ELECTRICALS** Electrical life 2000 cycles min. per switch @ 24 VDC, 25 mA SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE 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 -20°C to 85°C Operating temperature range **SOLDERING & CLEANING RECOMMENDATIONS\*** Hand soldering 350°C max. for 2 seconds max.(30 watt iron max.) 260°C max. for 5 seconds max. Wave soldering

Spray wash from top side only.

# **MATERIALS**

Cleaning (with tape seal)

Base & Cover NDI: UL94V-O, glass fiber filled PBT, black

DM: UL94V-O, glass fiber filled PPS, black

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

Actuators UL94V-O, Nylon, white

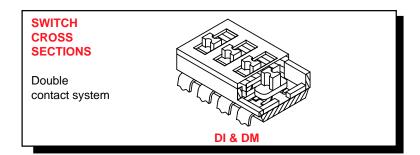
Contacts Gold over nickel plated copper alloy

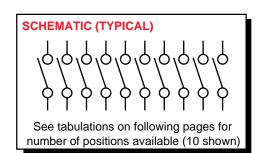
Terminals Gold plated brass.

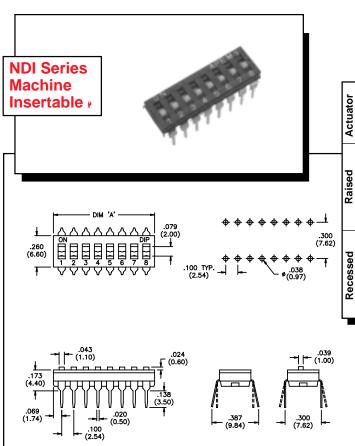
Term. Sealing Molded-in Tape seal Kapton

## **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).





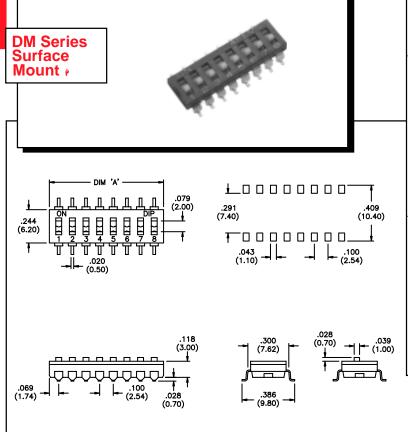


	Squared terminals		Spread terminals				
Actuator	MODEL NO. with no tape seal	MODEL NO. with tape seal	MODEL NO. with no tape seal	MODEL NO. with tape seal	No. of Pos.	'A' E +.008/ (+0.2/-	
Raised	NDI01H	n/a	NDI01S	n/a	1	.137	(3,48)
	NDI02H	n/a	NDI02S	n/a	2	.237	(6,02)
	NDI04H	n/a	NDI04S	n/a	4	.437	(11.10)
	NDI06H	n/a	NDI06S	n/a	6	.637	(16,18)
	NDI08H	n/a	NDI08S	n/a	8	.837	(21,26)
	NDI10H	n/a	NDI10S	n/a	10	1.037	(26,34)
Recessed	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)

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

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

n/a = not available.



Actuator Style	MODEL NO. with no tape seal	MODEL NO. with tape seal	No. of Pos.	'A' Dimension +.008/000" (+0.2/-0.0mm)		
Raised	DM01	n/a	1	.137	(3,48)	
Actuator	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	DMR01	n/a	1	.137	(3,48)	
Actuator	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.

APEM, 63 NECK ROAD, HAVERHILL, MA USA 01835-0788 TOLL FREE: (877) 246-7890 FAX: (781) 245-4531 E-mail: info@apem.c Pta

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