DIP Switch Slide Type







Application:

- · Industrial Control
- · Computer and Peripherals
- · Variety of Function Controls

Specifications:

Actuator : Thermoplastic PBT UL 94V-0 – White
 Cover : Thermoplastic PBT UL 94V-0 – Red

Contact : Copper Alloy, Gold Plated

• Terminal : Brass, Gold Plated

Base : Thermoplastic PA66 UL 94V-0 - Black
 Contact Rating : Non-Switching: 100mA, 50V DC

: Non-Switching: 100mA, 50V DC Switching: 25mA, 24V DC

Contact Resistance : 50mΩ max.

Insulation Resistance
 Dielectric Strength
 Operating Force
 100MΩ min. 500V DC
 500V AC/1 minute
 1000gf max. (9.8N max.)

Travel : 2mm

Operating Life
 Operating Temperature
 Storage Temperature
 Shelf Life
 2000 cycles
 -40°C to +85°C
 5 Months

Test Sequence

Properties	Item	Description	Test Conditions	Requirements
Electric Performance	1	Visual Examination	By visual examination check without any out pressure & testing.	There shall be no defects that affect the serviceability of the product.
	2	Contact Resistance	 To be measured between the two terminals associated with each switch pole. Measurements shall be made with a 1kHz shall current contact resistance meter. 	50mΩ Max.(initial)
	3	Insulation Resistance	500V DC, 1 minute ± 5 sec.	100MΩ Min.
	4	Dielectric withstanding Voltage	500V AC(50Hz or 60Hz) shall be applied between all the adjacent terminals and between the terminal and the frame for 1 minute.	There shall be no breakdown or flashover
	5	Capacitance	1 MHz ±10kHz	5pF Max.
Mechanical Performance	6	Operation Force	Applied in the direction of operation. ON→OFF OFF→ON	1000gf Max (9.8N Max)

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Properties	Item	Description	Test Conditions	Requirements	
	7	Stop Strength	A static load of 1 kgf(9.8N) is applied in the operating direction and pulling direction operated for a period of 15 seconds. A static load of 5 kgf (49N) to apply on stem top position for a period of 15 seconds.		There shall be no sign of damage mechanically There shall be no sign of electrical function out of order or damage
	8	Soldering Heat Resistance	Soldering Temperature:		
			TEMP TIME		As shown in item 2~6
			260°C ±5°C 5 ±1 sec.		As shown in item 2~0
			(PCB is 1.6mm in thickness.)		
Mechanical Performance	9	Vibration	 Shall be vibrated in accordance with Methof MIL-STD-202F 1. Frequency: 10-55-10 Hz 1 min/cycle. 2. Direction: 3 vertical directions includir direction of operation. 3. Test Time: 2 hours each direction. 	As shown in item 2~6	
	10	Shock	Shall be shocked in accordance with Meth condition A of MIL-STD-202F 1. Acceleration: 50G. 2. Action Time: 11 ± 1 m sec. 3. Testing Direction: 6 sides. 4. Test cycle: 3 times in each direction)	As shown in item 2~6	
	11	Solderability	 NDS(R)-V Soldering Temperature:245 ±3°C Lead-Free solder: M705E JIS Z 3282 Class A (Tin 96.5%, Silver 3%, Copper 0.5%) Flux: 5-10 seconds. Duration of solder Immersion: 5 ±1 sec. 		No anti-soldering and the coverage of dip- ping into solder must more than 75% was requested.
Durability	12	Operation Life	Measurements shall be made following the forth below: 1. 25mA, 24V DC resistive load 2. Rate of Operation: 15~20 cycles/ min 3. Cycle of Operation: 2000 cycles.	As shown in item 3,4 Contact Resistance: 100mΩ Max. (Final-after test)	
Weather Proof	13	Resistance Low Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made: 1. Temperature: -40°C ±3°C. 2. Time: 96 hours		As shown in item 2~6
	14	Resistance High Temperature	Following the test set forth below the sam be left in normal temperature and humidity tions for an hour before measurements ard 1. Temperature: 85°C ±2°C. 2. Time: 9	1.As shown in item 3~6 2.Contact Resistance: 100mΩ Max.	
	15	Humidity Resistance	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made: 1. Temperature: 40°C ±2°C 2. Relative Humidity:90~95% 3. Time: 96 hours		1. As shown in item 4,6 2. Contact Resistance: 100mΩ Max. 3. Insulation Resistance: 10MΩ Min.

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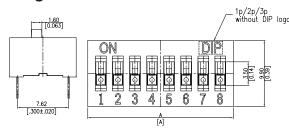
DIP Switch Slide Type

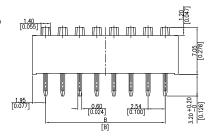


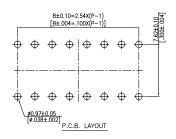
Soldering Conditions

Manual Soldering				
Soldering Temperature	Max.350°C			
Continuous Soldering Time	Max. 5 seconds			

Diagram

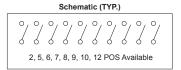






Dimensions: Millimetres

Part Number	No. of Pos.	"A" mm (Inches)	"B" mm (Inches)
MCNDS-02V	2	6.44 (0.254)	2.54 (0.1)
MCNDS-05V	5	14.06 (0.554)	10.16 (0.4)
MCNDS-06V	6	16.6 (0.654)	12.7 (0.5)
MCNDS-07V	7	19.14 (0.754)	15.24 (0.6)
MCNDS-08V	8	21.68 (0.854)	17.78 (0.7)
MCNDS-09V	9	24.22 (0.954)	20.32 (0.8)
MCNDS-10V	10	26.76 (1.054)	22.86 (0.9)
MCNDS-12V	12	31.84 (1.254)	27.94 (1.1)



Tolerances: 10mm Over ±0.2mm 10mm Below ±0.1mm

Part Number Table

Description	Part Number
DIP Switch, Slide Type, 2Pos, SPST-NO, Raised Actuator, Red, TH	MCNDS-02V
DIP Switch, Slide Type, 5Pos, SPST-NO, Raised Actuator, Red, TH	MCNDS-05V
DIP Switch, Slide Type, 6Pos, SPST-NO, Raised Actuator, Red, TH	MCNDS-06V
DIP Switch, Slide Type, 7Pos, SPST-NO, Raised Actuator, Red, TH	MCNDS-07V
DIP Switch, Slide Type, 8Pos, SPST-NO, Raised Actuator, Red, TH	MCNDS-08V
DIP Switch, Slide Type, 9Pos, SPST-NO, Raised Actuator, Red, TH	MCNDS-09V
DIP Switch, Slide Type, 10Pos, SPST-NO, Raised Actuator, Red, TH	MCNDS-10V
DIP Switch, Slide Type, 12Pos, SPST-NO, Raised Actuator, Red, TH	MCNDS-12V

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