

JS0104AP4 Datasheet



DiGi Electronics Part Number	JS0104AP4-DG
Manufacturer	NKK Switches
Manufacturer Product Number	JS0104AP4
Description	SWITCH SLIDE DIP SPST 25MA 24V
Detailed Description	Dip Switch SPST 4 Position Through Hole Slide (Standard) Actuator 25mA 24VDC

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Purchase and inquiry

Manufacturer Product Number:

JS0104AP4

Series:

JS

Circuit:

SPST

Current Rating (Amps):

25mA

Actuator Type:

Slide (Standard)

Contact Material:

Beryllium Copper

Height Above Board:

0.162" (4.11mm)

Termination Style:

PC Pin

Washable:

No

Operating Temperature:

-25°C ~ 70°C

Length:

0.437" (11.10mm)

Electrical Life:

2,000 Cycles

Manufacturer:

NKK Switches

Product Status:

Active

Number of Positions:

4

Voltage Rating:

24VDC

Actuator Level:

Raised

Contact Finish:

Gold

Mounting Type:

Through Hole

Pitch:

0.100" (2.54mm), Full

Features:

-

Body Material:

Polyamide (PA), Nylon, Glass Filled

Mechanical Life:

2,000 Cycles

Base Product Number:

JS0104AP

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8536.50.9065

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

General Specifications

Electrical Capacity (Resistive Load)

Switching Rating:	25mA @ 24V DC
Nonswitching Rating:	0.1A @ 50V DC

Other Ratings

Contact Resistance:	50 milliohms maximum
Insulation Resistance:	100 megohms minimum @ 500V DC
Dielectric Strength:	500V AC minimum for 1 minute minimum
Mechanical Life:	2,000 operations minimum
Electrical Life:	2,000 operations minimum
Total Travel:	For slide actuator: .031" (0.8mm); for piano actuator: .114" (2.9mm)

Materials & Finishes

	JS01 Slide DIP	JS03 Piano DIP
Actuator:	Glass fiber reinforced polyamide	Glass fiber reinforced PBT
Cover:	Glass fiber reinforced polyamide (UL94V-0)	Glass fiber reinforced PBT (UL94V-0)
Base:	Glass fiber reinforced polyamide (UL94V-0)	Glass fiber reinforced PBT (UL94V-0)
Contacts:	Beryllium copper with gold plating	Phosphor bronze with gold plating
Terminals:	Brass with gold plating	Phosphor bronze with gold plating

Environmental Data

Operating Temp Range:	-25°C through +70°C (-13°F through +158°F)
Humidity:	90 ~ 95% humidity for 96 hours @ 40°C (104°F)
Vibration:	10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
Shock:	50G (490m/s ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

PCB Processing

Soldering:	Wave Soldering Recommended. See Profile A in Supplement section. Manual Soldering: See Profile A in Supplement section. Note: Switches are packaged in OFF position and should be soldered in OFF position.
Cleaning:	These devices are not process sealed. Hand clean locally using alcohol based solution.

Standards & Certifications

Flammability Standards:	UL 94V-0 rated cover & base The JS series devices have not been tested for UL recognition and CSA certification. These switches are designed for use in a low-voltage, low-current circuit. When used as intended in a low-voltage, low-current circuit, the results do not produce hazardous energy.
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Distinctive Characteristics

Slide type and piano type actuators available.

Twin sliding contact mechanism with self-cleaning action (JS01) provides smooth actuation and produces high contact reliability.

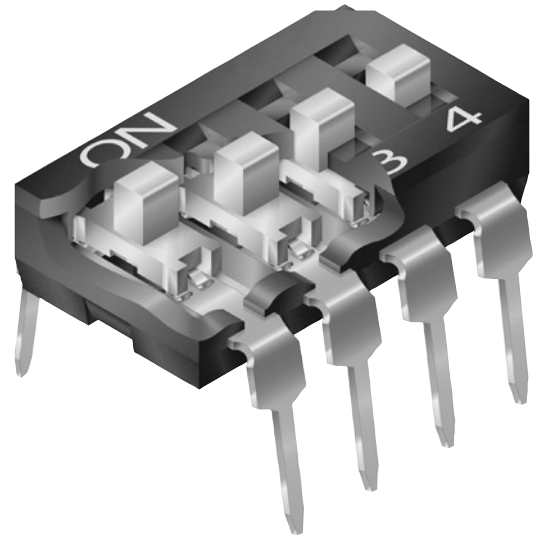
Gold plated contacts prevent oxidation and sulfide effect and provide stable contact resistance.

Use of self-extinguishing UL94V-0 certified material in cover and base provides high arc resistance and high insulation resistance.

Slanted terminals ensure secure PCB mounting and prevent dislodging during wave soldering.

Terminal spacing conforms to standard .100" (2.54mm) PCB grid.

End-to-end stackable.



Actual Sizes

JS01



JS03



Series JS01 & JS03

Ultra-Miniature Slide & Piano DIP

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides **H**

Tactiles

Tilt

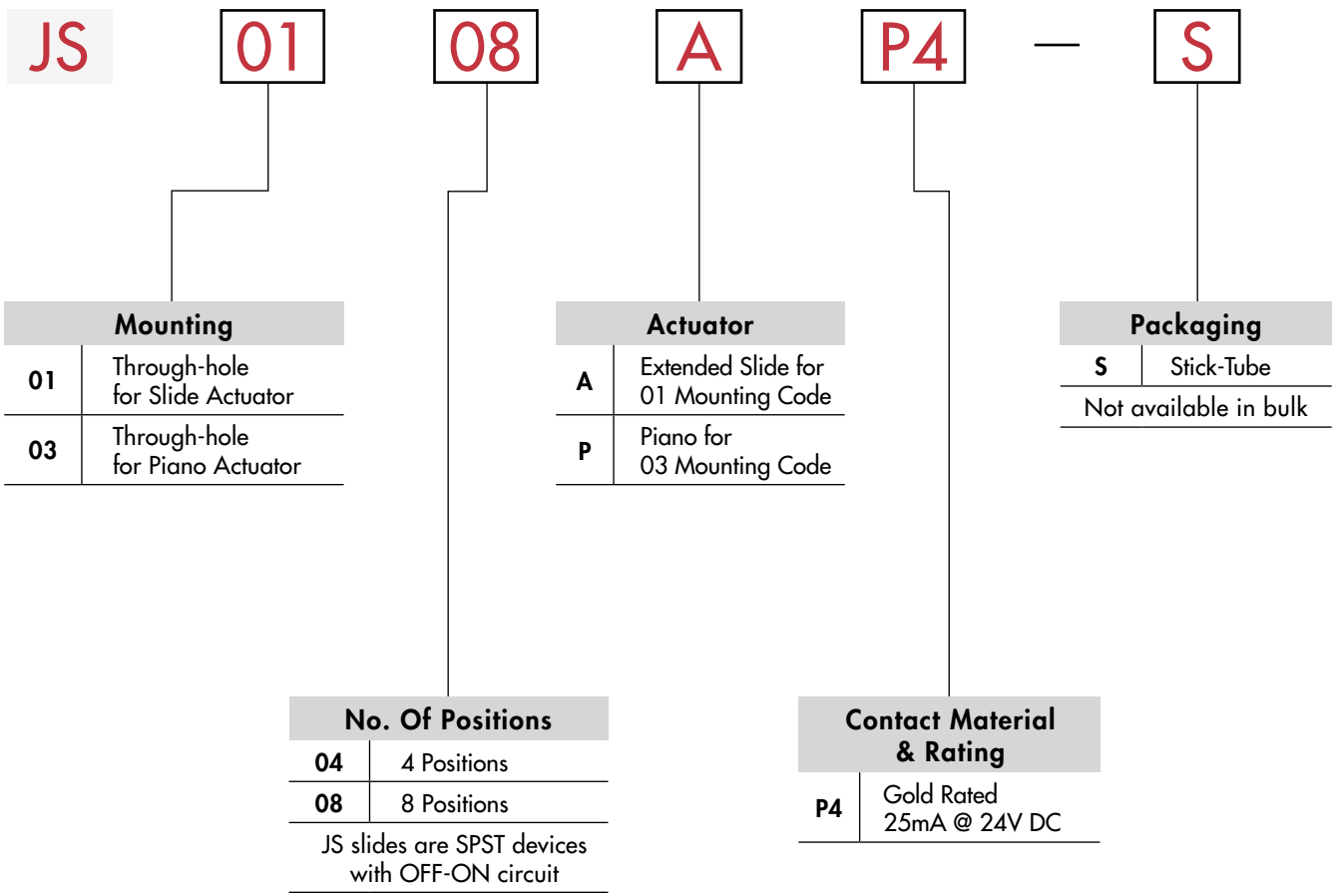
Touch

Indicators

Accessories

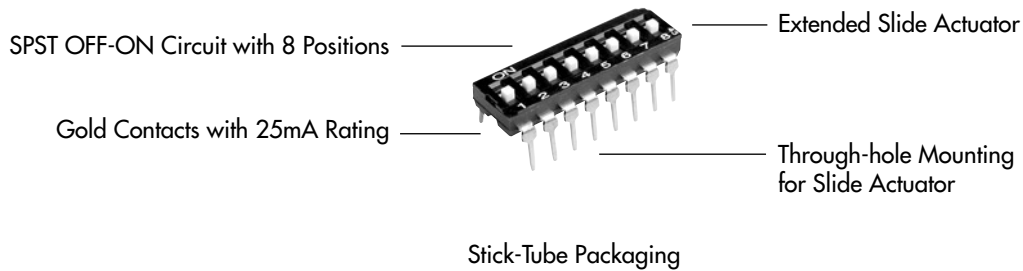
Supplement

TYPICAL SWITCH ORDERING EXAMPLE



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

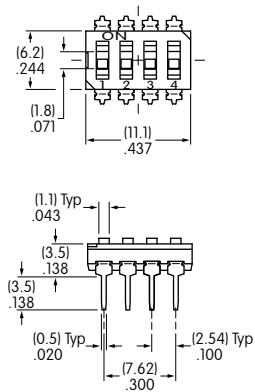
JS0108AP4-S



Ultra-Miniature Slide & Piano DIP

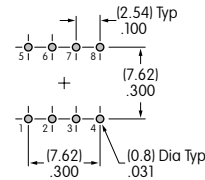
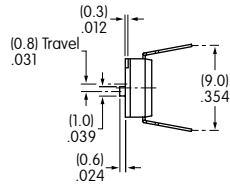
Series JS01 & JS03

TYPICAL SWITCH DIMENSIONS



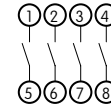
End View

Slide Actuator

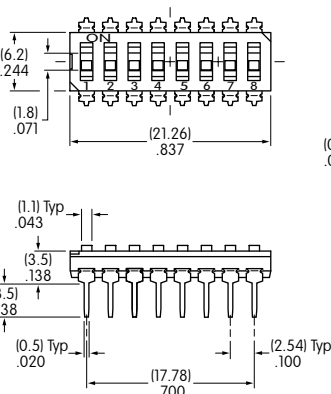


Schematic

4 Positions

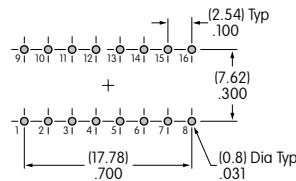
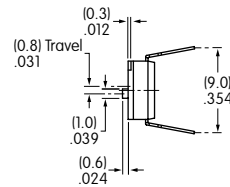


JS0104AP4



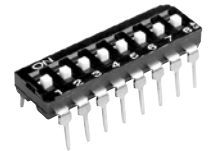
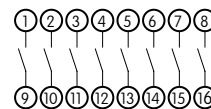
End View

Slide Actuator

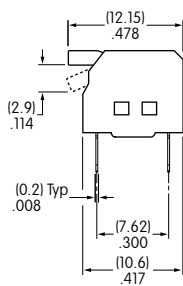
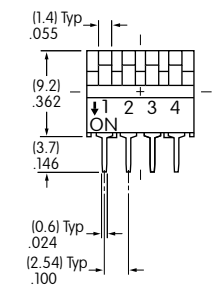


Schematic

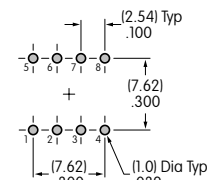
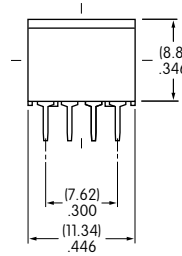
8 Positions



JS0108AP4

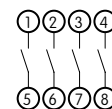


Piano Actuator

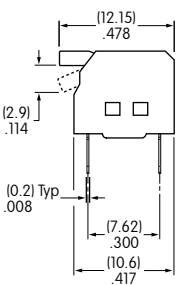
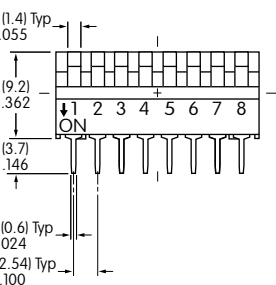


Schematic

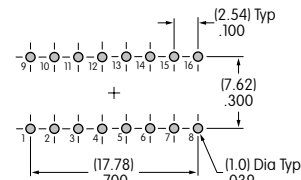
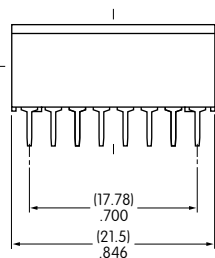
4 Positions



JS0304PP4

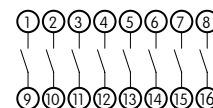


Piano Actuator



Schematic

8 Positions



JS0308PP4

Series JS01 & JS03

Ultra-Miniature Slide & Piano DIP

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

PACKAGING

S

Stick-Tube Packaging

Switches are not available in bulk and must be ordered in increments of:

Slide Actuator

JS0104AP4-S: 46 pieces per stick-tube

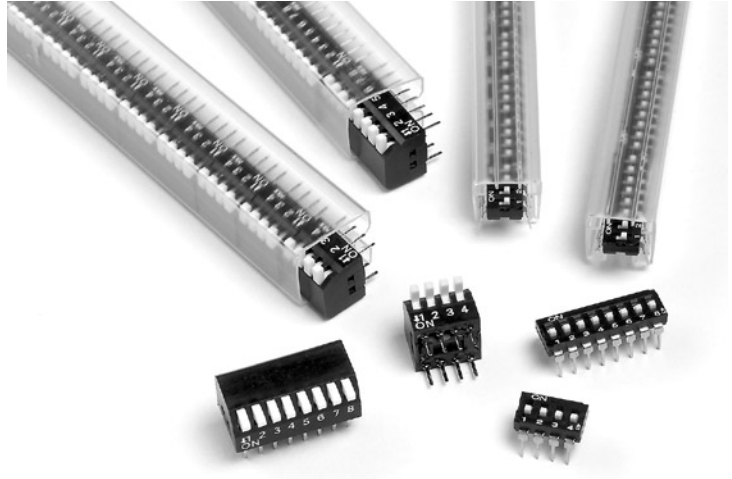
JS0108AP4-S: 24 pieces per stick-tube

Piano Actuator

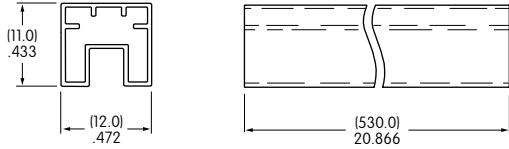
JS0304PP4-S: 44 pieces per stick-tube

JS0308PP4-S: 23 pieces per stick-tube

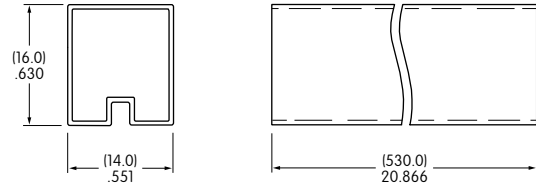
Switches are packaged in OFF position.



**Stick-Tube Dimensions for Slide Actuator
JS0104AP4-S & JS0108AP4-S**



**Stick-Tube Dimensions for Piano Actuator
JS0304PP4-S & JS0308PP4-S**



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