

General Specifications

Electrical Capacity (Resistive Load)

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

Other Ratings

	JS02 Extended Actuator	JS04 Flush Actuator
Contact Resistance:	50 milliohms maximum	50 milliohms maximum
Insulation Resistance:	100 megohms minimum @ 500V DC	100 megohms minimum @ 100V DC
Dielectric Strength:	500V AC minimum for 1 minute minimum	300V AC minimum for 1 minute minimum
Mechanical Life:	2,000 operations minimum	2,000 operations minimum
Electrical Life:	2,000 operations minimum	2,000 operations minimum
Total Travel:	.031" (0.8mm)	.026" (0.65mm)

Materials & Finishes

	JS02 Extended Actuator	JS04 Flush Actuator
Actuator:	Glass fiber reinforced polyamide	Glass fiber reinforced polyamide
Cover:	Glass fiber reinforced polyamide (UL94V-0)	Glass fiber reinforced polyamide (UL94V-0)
Base:	Glass fiber reinforced polyamide (UL94V-0)	Glass fiber reinforced polyamide (UL94V-0)
Contacts:	Beryllium copper with gold plating	Copper alloy with gold plating
Terminals:	Brass with gold plating	Brass with gold plating

Environmental Data

Operating Temp Range:	JS02 Extended Actuator: -25°C through +70°C (-13°F through +158°F) JS04 Flush Actuator: -30°C through +85°C (-22°F through +185°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:	Reflow 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 slides have not been tested for UL recognition or 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

Extended and flush slide actuators available.

Twin sliding contact mechanism with self-cleaning action (JS02) 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.

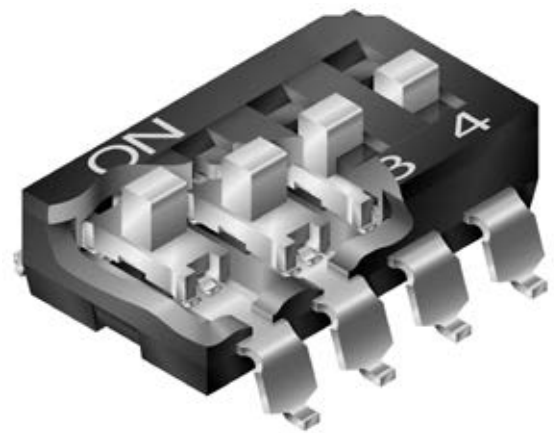
Gull-wing terminals ensure secure PCB mounting and prevent dislodging during vapor phase and infrared convection reflow soldering.

Terminal spacing conforms to standard PCB grid.
For JS02: .100" (2.54mm)
For JS04: .050" (1.27mm)

End-to-end stackable.

Packaged in tape-reel or stick-tube. Tape-reel packaging meets EIA-481-D Standard.

Coplanarity: all considered surfaces must lie between two parallel planes that are a maximum distance apart of .0059" (0.15mm). (Additional coplanarity details in Terms and Acronyms in the Supplement section.)



Actual Sizes

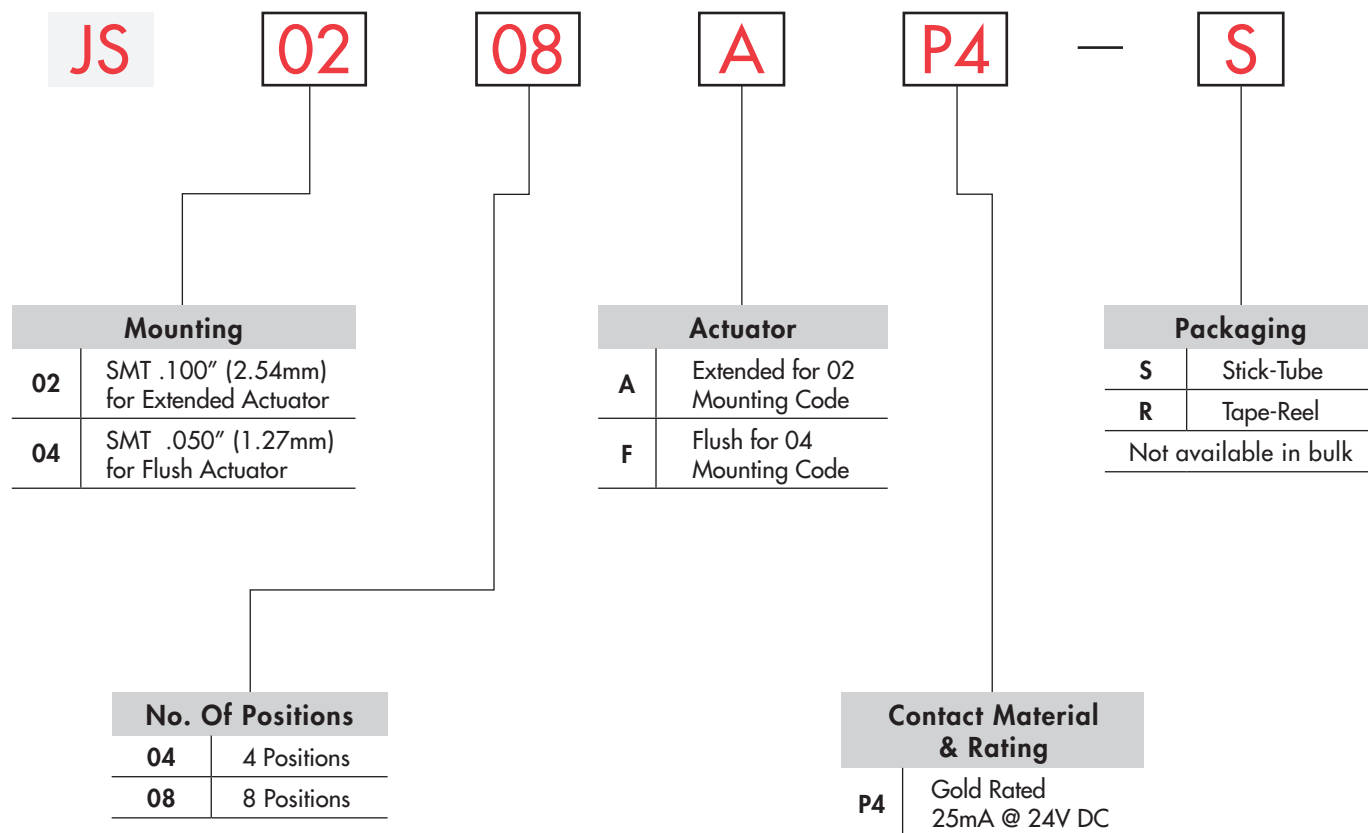
JS02



JS04

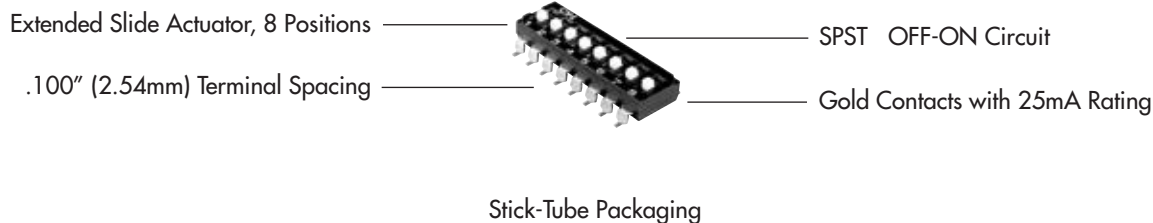


TYPICAL SWITCH ORDERING EXAMPLE



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

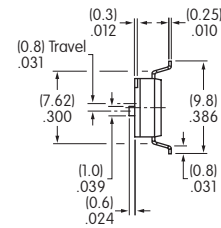
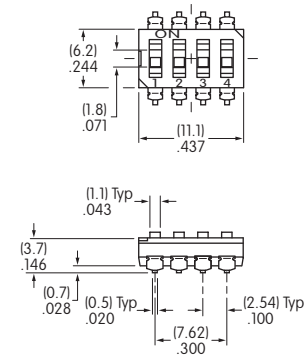
JS0208AP4-S



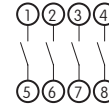
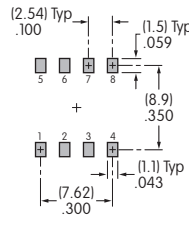
TYPICAL SWITCH DIMENSIONS

Single Pole

4 Positions • Extended Actuator



End View

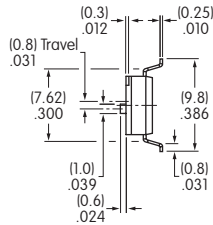
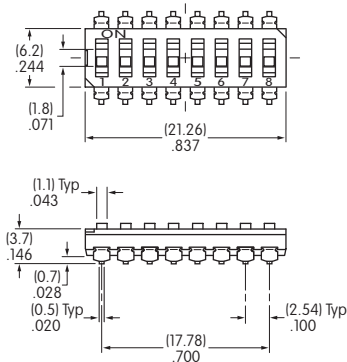


Schematic

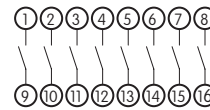
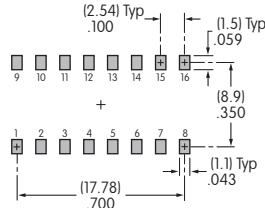
JS0204AP4

Single Pole

8 Positions • Extended Actuator



End View

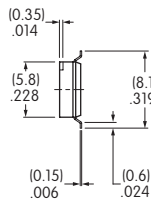
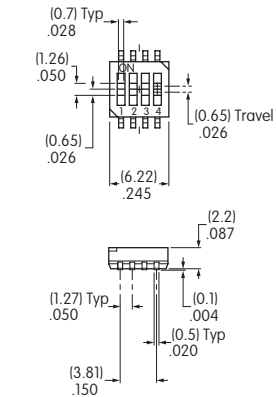


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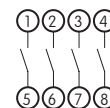
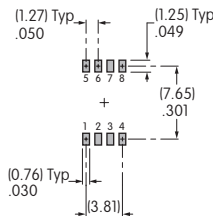
JS0208AP4

Single Pole

4 Positions • Flush Actuator



End View

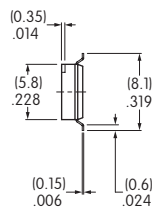
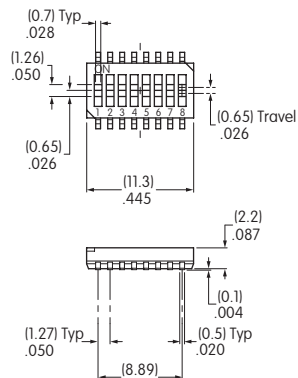


Schematic

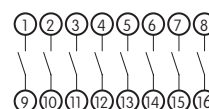
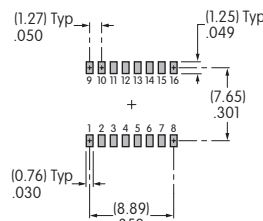
JS0404FP4

Single Pole

8 Positions • Flush Actuator



End View



Schematic

JS0408FP4

PACKAGING

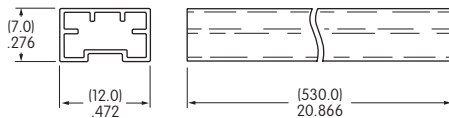
S

Stick-Tube Packaging

Switches are packaged in OFF position.
Switches are not available in bulk and must be ordered in the following increments:

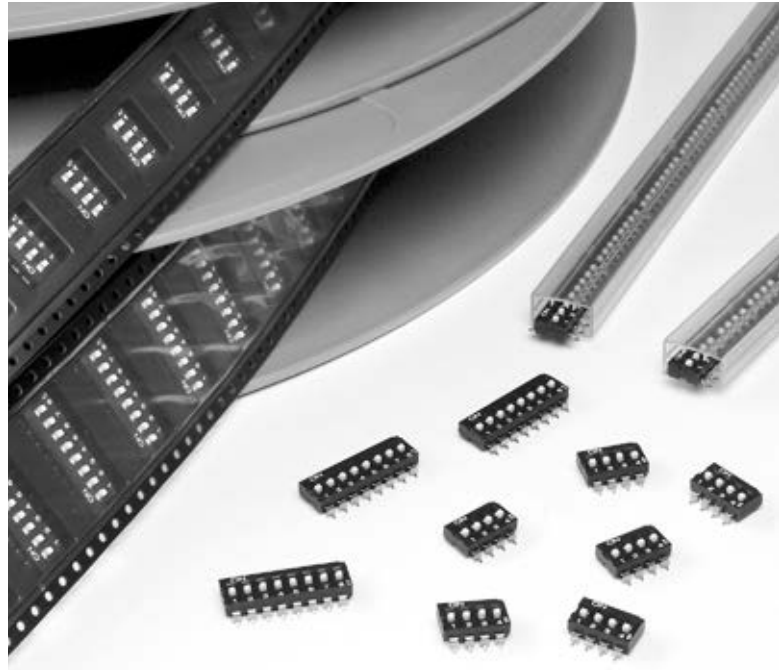
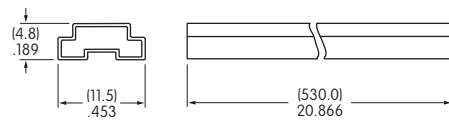
Extended Actuator

JS0204AP4-S: 46 pieces per stick-tube
JS0208AP4-S: 24 pieces per stick-tube



Flush Actuator

JS0404FP4-S: 80 pieces per stick-tube
JS0408FP4-S: 45 pieces per stick-tube



R

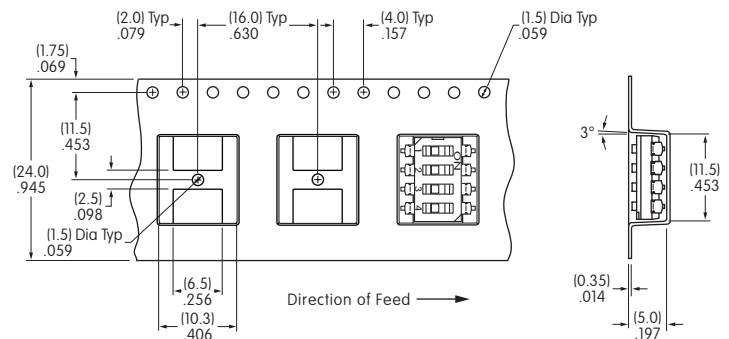
Tape-Reel Packaging for Extended Actuator

Switches are packaged in OFF position.
Switches are not available in bulk and must be ordered in the following increments:

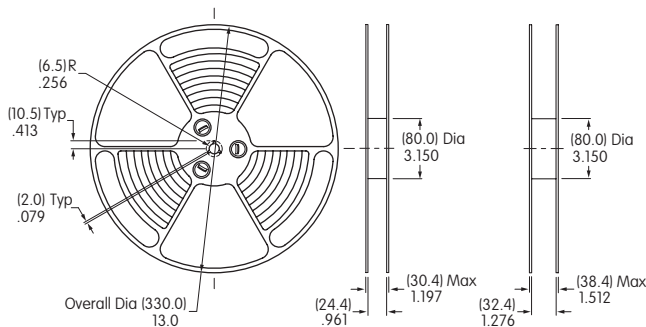
JS0204AP4-R: 500 pieces per tape-reel
JS0208AP4-R: 500 pieces per tape-reel

Minimum Leader Length: 15.75" (400mm)
Minimum Trailer Length: 6.3" (160mm)

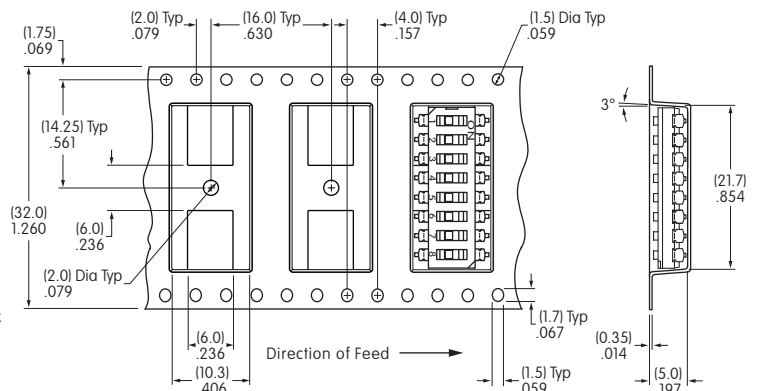
Tape-reel packaging meets EIA-481-D Standard.



Tape Dimensions for JS0204AP4-R



Reel Dimensions JS0204AP4-R JS0208AP4-R



Tape Dimensions for JS0208AP4-R

PACKAGING (CONTINUED)

R

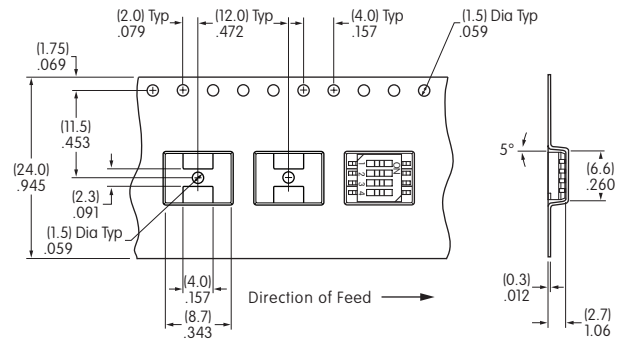
Tape-Reel Packaging for Flush Actuator

Switches are packaged in OFF position.
Switches are not available in bulk and must be ordered in the following increments:

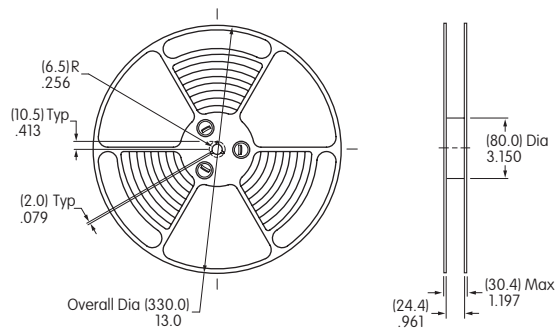
JS0404FP4-R: 2,000 pieces per tape-reel
JS0408FP4-R: 2,000 pieces per tape-reel

Minimum Leader Length: 15.75" (400mm)
Minimum Trailer Length: 6.3" (160mm)

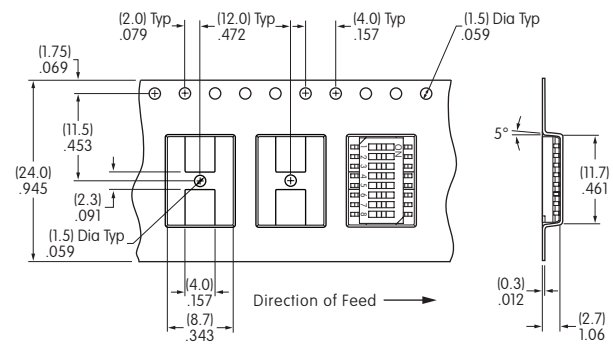
Tape-reel packaging meets EIA-481-D Standard.



Tape Dimensions for JS0404FP4-R



Reel Dimensions for JS0404FP4-R & JS0408FP4-R



Tape Dimensions for JS0408FP4-R

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

NKK Switches:

[JS0408FP4-S](#) [JS0204AP4-S](#) [JS0208AP4-S](#) [JS0204AP4-R](#) [JS0208AP4-R](#) [JS0404FP4-S](#) [JS0404FP4-R](#)
[JS0408FP4-R](#) [JS0204AP4](#) [JS0404FP4](#) [JS0208AP4](#) [JS0408FP4](#)