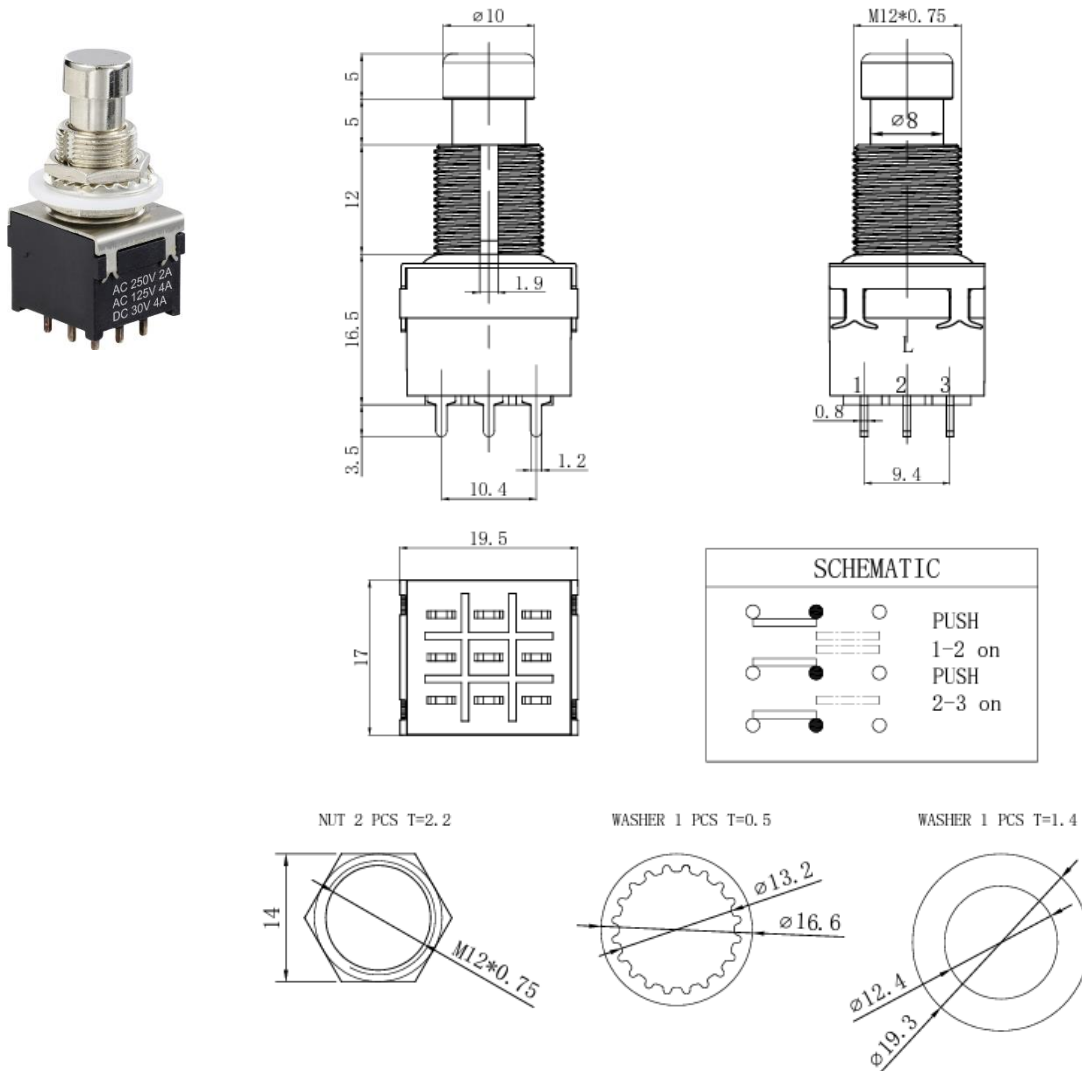


Data Sheet

Foot switch big 9 pin L-type with straight pin



Specifications

1. Rated V/A: 125V AC 4A, 250V AC 2A, 30V DC 4A
2. Contact resistance: $\leq 50\text{m}\Omega$
3. Insulated resistance: $\geq 100\text{M}\Omega$, 500V DC
4. Proof Voltage: 500V AC/min
5. Operation force: $1.1 \pm 0.5\text{Kgf}$; $1.6 \pm 0.5\text{Kgf}$; $2.0 \pm 0.5\text{Kgf}$; $3.0 \pm 0.5\text{Kgf}$
6. Lifetimes: $\geq 10,000$ cycles

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1.0 Scope

Application: The specification is applicable signal selector used in electronic equipment.

2.0 Applicable documents and specifications

See product drawings and any other sections of this specification for the relevant documents.
In case where the product specification differs from the product drawings, the product drawings take precedence.

3.0 Criteria

Unless otherwise specified, the standard range of atmospheric conditions for making measurements and conducting tests is as follows.

3.1 Ambient temperature	5℃～35℃
3.2 Relative humidity	45%～85%
3.3 Atmospheric pressure	86Kpa～106 Kpa
3.4 Operating temperature range	-10℃～+70℃
3.5 Storage temperature range	-40℃～+85℃

*If there is any doubt about the results, measurements shall be made within the following condition
Ambient temperature: 20℃±2℃, Relative humidity : 60% to 70%, Air pressure : 86Kpa～106 Kpa

4.0 Mechanical characteristics

Item	Test Condition	Specification
4.1 Operating force	N/A	1.1±0.5Kgf 1.6±0.5Kgf 2.0±0.5Kgf 3.0±0.5Kgf
4.2 Terminal strength	A static force of 1000gf being applied in one direction on the tip of the terminal for 1 minute. One time per terminal	The terminal may be deformed but shall not sustain any problem as deviation and breaking of terminal and breaking of insulation material, electrical performance of the above 4 shall be assured.
4.3 Actuator strength	A static force of 1.1/1.6/2.0/3.0kgf being applied in the direction of operation (stopper-side) for 1 minute. A static force of 1.1/1.6/2.0/3.0kgf being applied in the direction of pulling for 1 minute (the test of self-lock must be unlock)	Shall be free from pronounced wobble, deformation, and mechanical abnormalities
4.4 Control wobble	Shall be measured by applying a static load of 100gf/cm to the tip of control unit	Less than 1mm

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4.5 Manual Soldering	Bit temperature of soldering iron: 300°C or less Application time of soldering iron: Within 3s	Electrical characteristic shall be satisfied no mechanical abnormality
4.6 Dip Soldering	Preheating: Surface temperature of board: 100°C or less Preheating time: within 1 min Soldering Soldering temperature: 260°C $\pm$ 5°C Preheating time: within 3 $\pm$ 1S Conduct the above soldering process for 1 or 2 times	Electrical characteristic shall be satisfied no mechanical abnormality
4.7 Bushing mount strength	N/A	>5Kgf/cm 5Kgf/cm min
5.0 Electrical Performance Specifications		
Item	Test Condition	Specification
5.1 Contact resistance	Shall be measured at 1KHz $\pm$ 200HZ (Max 30mA, Max 20mV) or 5V DC, 1 A by a voltage drop method After life test	50m Ω Max 200 m Ω Max
5.2 Insulation resistance	To be measured with an insulation device of 500V DC between all the terminals and between the terminals frame for 1 minute $\pm$ 5seconds	More than 100M Ω
5.3 Voltage proof	500V AC (50~60Hz) being applied between all the adjacent terminals and between all the terminals and between the terminals and the frame for 1 minute $\pm$ 5sec	No breaking insulation
5.4	N/A	30V DC 4A 125V AC 4A 250V AC 2A
6.0 Endurance performance specifications		
Item	Test Condition	Specification
6.1 Operating life (without load)	10,000 cycle operations at a rate of 15~20 cycle/minute without load	Contact resistance: max 100m Ω Operating force: 1. 1/1. 6/2. 0/3. 0 $\pm$ 0.5Kgf
6.2 Operating life (with load)	10,000 cycle operations at rate of 15~20 cycle/minute with a load of DC 30V 4A	Contact resistance: max 150m Ω Operating force: 0. 93/1. 36/1. 7/2. 55 $\pm$ 0.5Kgf

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7.0 Parts	
7.1 Terminal contact	Copper, Silver-plated
7.2 Movable contact	Copper, Silver-plated
7.3 Base	PA66
7.4 Reset pin	LCP
7.5 Cap	Zine-alloy
7.6 Bushing	Zine-alloy
7.7 Fixed mount	Electrolytic tinplate
7.8 Switch	POM
7.9 Little spring	Stainless steel wire
7.10 Big spring	Stainless steel wire
7.11 Ejector	Zine-alloy
7.12 pushing rod	Zine-alloy