



RoHS Compliant



●Operating temperature range -10°C~+70°C

Part Numbering





 $3 - \phi 1.1$





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MFS201N-Z



¢1.3+0



Panel Cut–Out Dimensions (Top view)



MFS201N-4-Z





PC Hole Layouts (Top view)





Terminal numbers are not shown on the switch.



Terminal numbers are not shown on the switch.

•••• : Operating force from the center to the outer side (right or left).
•••• : Operating force from the outer side (right or left) to the center.

Specifications

Rating	Max.	AC125V 1A · DC30V 1A	
	Min.	DC5V 10mA (Resistive load)	
Initial contact resistance		30mΩ Max.	
Dielectric strength		AC500V 1 minute	
Insulation resistance		300MΩ Min.	
Electrical life		5,000 cycles	
Operating force		0.98~4.9N	
Switch timing		Non-shorting	

	function from A)	Circuit diagram	No. of terminals
ON	ON		6
2-1 5-4	2-3 5-6	5-0-6	

Specifications

Rating	Max.	AC125V 1A · DC30V 1A	
	Min.	DC5V 10mA (Resistive load)	
Initial contact resistance		20mΩ Max.	
Dielectric strength		AC500V 1 minute	
Insulation resistance		300MΩ Min.	
Electrical life		5,000 cycles	
Operating force		1.47~4.41N	
Switch timing		Non-shorting	

Switching function (Viewed from A)		Circuit diagram	No. of terminals
		2-0-1	
ON	ON	0-,	6
2-1 5-4	2-3 5-6	5-0-4	

 $\stackrel{\scriptscriptstyle \wedge}{\scriptstyle\sim}$: Semi-standard products.

※: Please note that MFS101EA-Z can be either Shorting or Non-shorting.









★MFS201PA-4-Z

%[Note] See below.



Top view)





Terminal numbers are not shown on the switch.

Specifications

Rating	Max.	DC30V 0.3A (Resistive load)	
	Min.	DC5V 10mA (Resistive load)	
Initial contact resistance		20mΩ Max.	
Dielectric strength		AC500V 1 minute	
Insulation resistance		100MΩ Min.	
Electrical life		5,000 cycles	
Operating force		← → • ←	
		2.45±0.98N 1.47±0.98N	
Switch timing		Undefined	

Switching function (Viewed from A)			Circuit diagram	No. of terminals
ON	ON	ON	O-(4) O-(5)	8
3−1 7−5	3-2 7-6	3-4 7-8	(7)-O-(6) O-(8)	

•••• : Operating force from the center to the outer side (right or left). •••• : Operating force from the outer side (right or left) to the center.



* : Please note that MFS201PA-4-Z and MFS201PA-5-Z can be either Shorting or Non-shorting (See page 506).



(1) Manual Soldering

Device : Soldering iron

MFS series heat-resistant table

Please refer to "MFS Series Heat-resistant Table" shown below.

(2) Auto Soldering

MFS series are not compatible with auto soldering. Soldering should be done manually.

(3) When soldering two or more terminals to the common land, use solder resist to solder them independently.

Flux Cleaning

(1) Solvent : Fluorine or Alcohol type.

(2) MSF Series are not process sealed. If the PC board is to be cleaned, clean the soldering surface of substrate with a brush so that the switch is not exposed to the cleaning solution.

Frequency of switch use

If the switch is not likely to be operated frequently (e.g. two or three operations a year) in the dry circuit area, a sulfide film is likely to be formed on the contacts, resulting in contact failure. If this is the case, gold-plated products are recommended. Please contact your local Nidec Copal Electronics sales representative.

MFS101D-6-Z Resin board MFS101D-9-Z 270℃ MAX. 3sec MAX. MFS101D-11-Z MFS101D-8-Z MFS201N-19-Z MFS201N-20-Z MFS101D-10-Z MFS101D-14-Z MFS201N-Z MFS201N-4-Z MFS201N-9-Z Phenol board 360°C MAX 3sec MAX MFS201N-16-Z MFS201N-21-Z MFS201N-23-Z MFS201N-24-Z MFS201PA-4-Z MFS101EA-Z MFS201PA-5-Z MFS401N-2-Z

Packaging Specifications



MFS

shorting