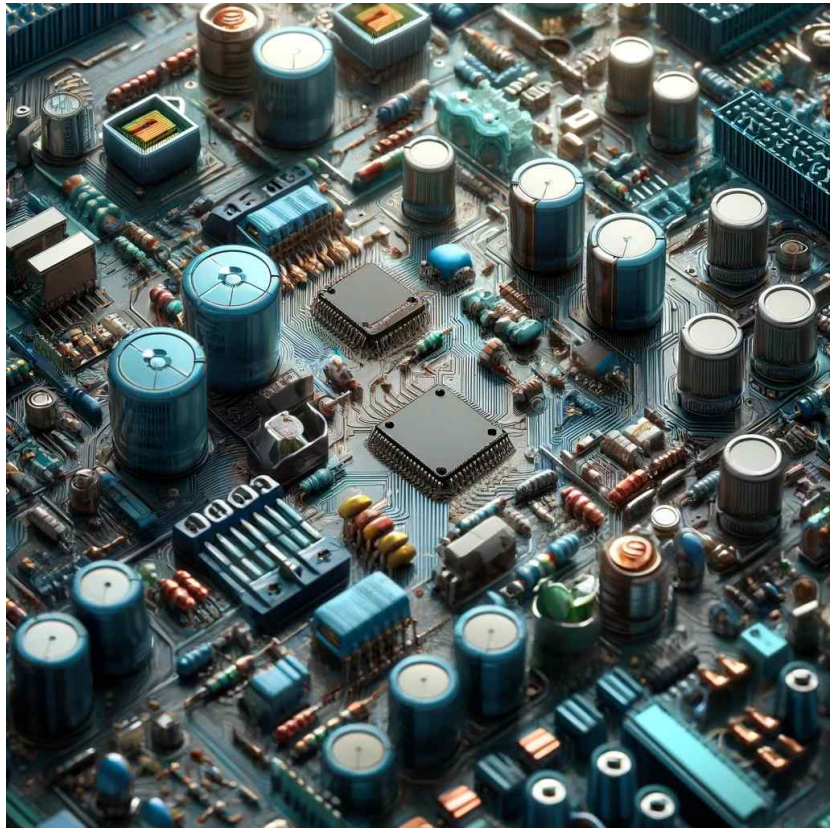
New Product

Slide (Jumper) Switch

※ NSI-21 ※



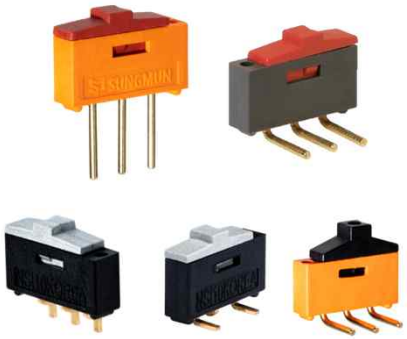
Sungmun Slide (Jumper) Switch comparison and feature data

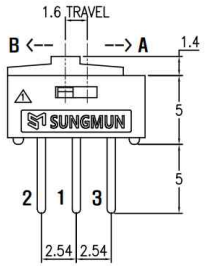
Two different circuit functions (On & On)

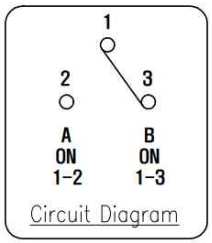
Ex) Mode change setting, Power On-Off function

Changing over type

- SSI-10 Series (THT)
- NSI-10 Series (SMD)

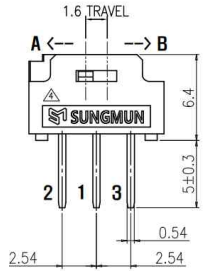


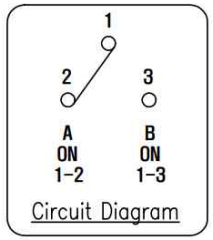


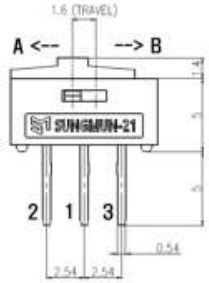


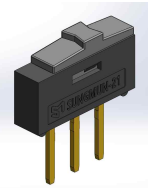
Switching type

- NSI-20 Series
- NSI-21 (New product)



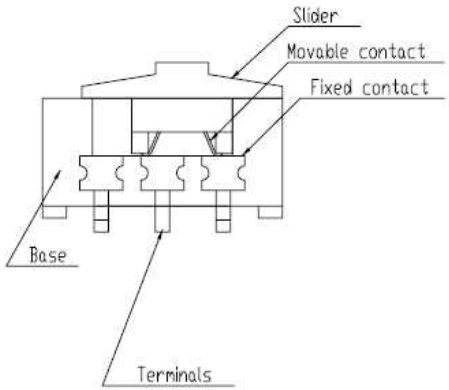
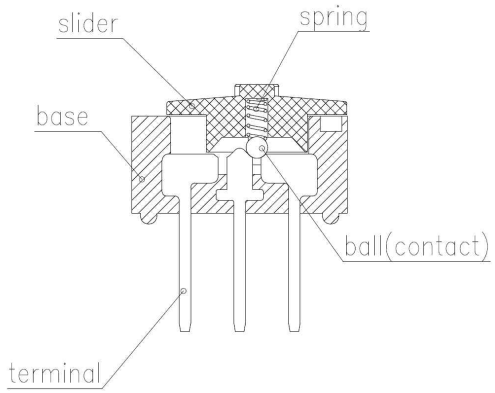






Type	SSI-10	NSI-10	NSI-20	NSI-21(New)
Circuit direction	Opposite slider direction & Circuit connection (Changing over type) Ex) To the Left of the slider Center-Right Terminal Connection	Opposite slider direction & Circuit connection (Changing over type) Ex) To the Left of the slider Center-Right Terminal Connection	Slider direction & Circuit connection are the same (Forward direction) (Switching type) Ex) To the Left of the slider Center-Left terminal connection	Slider direction & Circuit connection are the same (Forward direction) (Switching type) Ex) To the Left of the slider Center-Left terminal connection
Terminal shape	Terminal shape Circular	Terminal shape Flat T	Terminal shape Flat T	Terminal shape Flat T
Terminal type	THT, Right Angled THT available	THT, Right Angled THT, SMD, Right Angled SMD available	THT, Right Angled THT, SMD, Right Angled SMD available	THT, Right Angled THT, SMD, Right Angled SMD available

Comparison information with other companies by Sungmun NSI-21

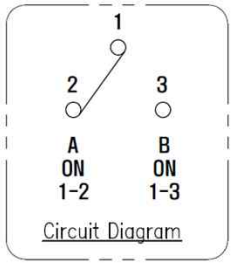
Item	Third party product	Sungmun's NSI-21 product
Structure picture		
Contact structure	Structure where CONTACT and terminal are in contact	Structure where the **ball directly contacts** the terminal
A structure that pushes	Structure through the bending of CONTACT, the force that pushes contact.	Structure where a spring pushes the ball (CONTACT)
How it works	Structure of pushing a simple slider	Sliding structure by ball + spring and terminal mount
Improvement solution	When the slider is moved slightly (about 0.2mm), the contact becomes unstable. Customer Feedback and Expected development: 1) A worker accesses Customer A's device to which the switch is applied. Case of malfunction due to not pushing the slider all the way far enough 2) Possibility of contact instability due to shock and vibration, etc.	**Contact stability and Strengthened slider return force** 1) Enhanced contact stability due to the pushing force provided by the pressure of the coil spring 2) Return by ball is possible even if the slider is not pushed far enough. 3) Clear click sensation through spring and ball action (Other company 170gf, glottis 250gf)

※ NSI-21 ※

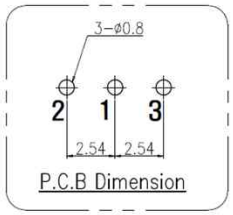
REV NO.	DATE	REVISION	DR	CH	APP
⚠					

SPECIFICATION

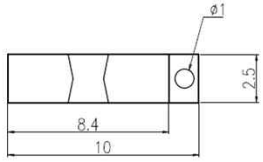
1. Rating : DC12V 0.5A~24V 0.3A.
2. Contact Resistance : 80mΩ Max.
3. Travel : 1.6mm.
4. Operating Force : 250gf ± 150gf.
5. Life Cycle : 2,000 Cycle (with load).
6. Packing : 200pcs Vinyl Bag

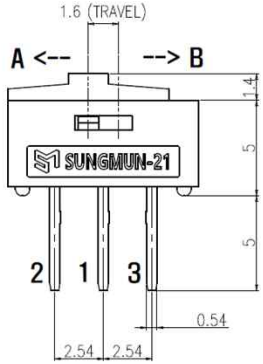


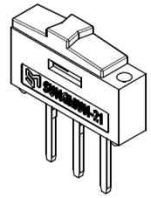
Circuit Diagram

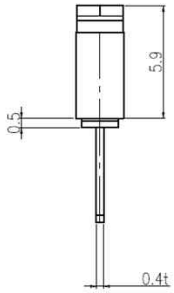


P.C.B Dimension





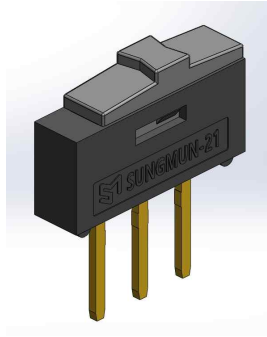




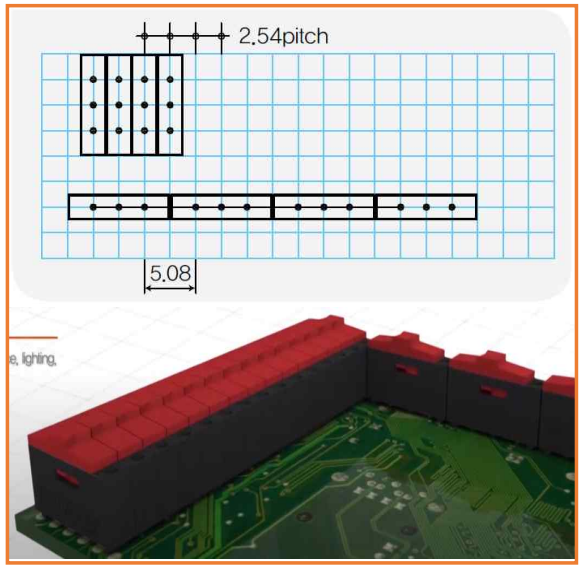
01	-	-	-	-
NO.	DESCRIPTION	MATERIAL	COLOR / FINISH	REMARK

DRAW/DESIGNED	CHECKED	APPROVED	G.TOL	TITLE	MINI SLIDE SWITCH	
K.N KIM	W.J LEE	K.I LEE	--			
Din ISO-2768-1m	2023-05-26	2023-05-26	2023-05-26	UNIT mm	SCALE N:S	MODEL NO. NSI-21	REV.
Ranges 0.5~3 3~6 6~30 30~120 120~400	SUNGMUN ELECTRONICS CO.,LTD			SIZE A4	DRAW NO. NSI-21-01	01
Tolerance ±0.1 ±0.1 ±0.2 ±0.3 ±0.5						

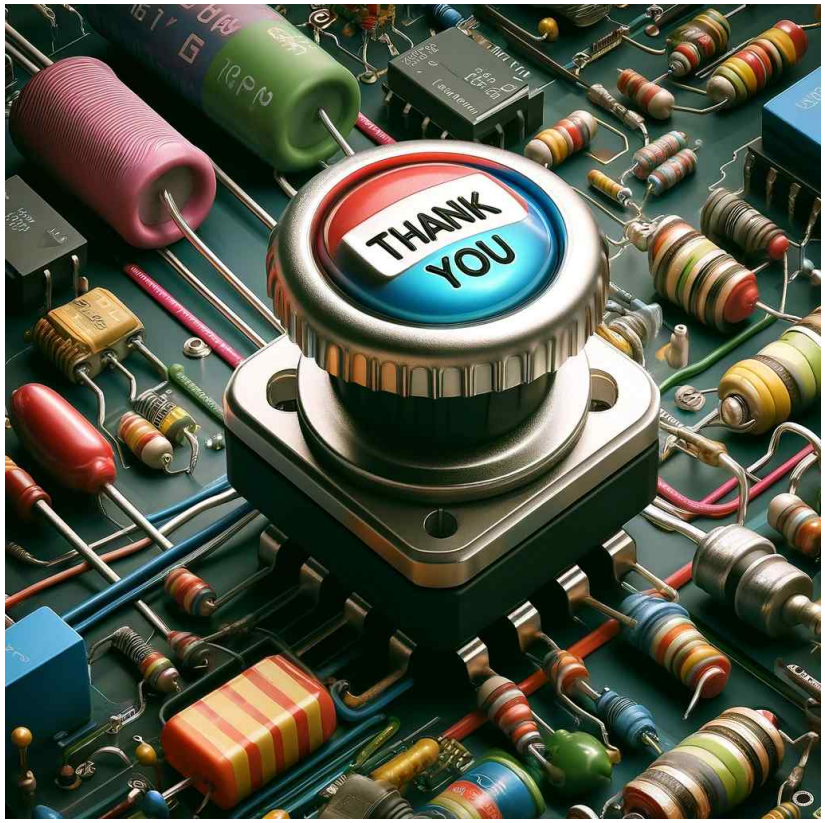
SME 210129



Used in array form on a PCB board at 2.54 pitch.



SUNGMUN ELECTRONICS



Thank you!

“For your better future”