

# 21000N series

## Low profile toggle switches

*Distinctive features and specifications*

UG1006-A



- Available with threaded or plain bushing, both with mounting plate
- Low profile - same height for single and double pole
- Wave solderable only

### ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
  - silver contacts (A) : 2A 250VAC - 4A 125VAC - 4A 30VDC
  - gold plated brass contacts (LD) : 100mA 30VDC
- Minimum load :
  - silver contacts (A) : 100mA 10V
  - gold plated brass contacts (LD) : 10 $\mu$ A 5VDC - 10mA 50mV
- Initial contact resistance : 20 m $\Omega$  max.
- Insulation resistance : 1.000 M $\Omega$  min. at 500VDC
- Dielectric strength :
  - 1.000 Vrms 50 Hz min. between terminals
  - 2.000 Vrms 50 Hz min. between poles
  - 2.000 Vrms 50 Hz min. between terminals and frame
- Electrical life at full load :
  - silver contacts (A) : 20.000 cycles
  - gold plated brass contacts (LD) : 50.000 cycles
- Low level or mechanical life : 100.000 cycles

### MATERIALS

- Case and cover : PBT
- Actuator : brass, nickel plated
- Bushing : brass, nickel plated
- Contacts
  - A : silver
  - LD : brass, gold plated

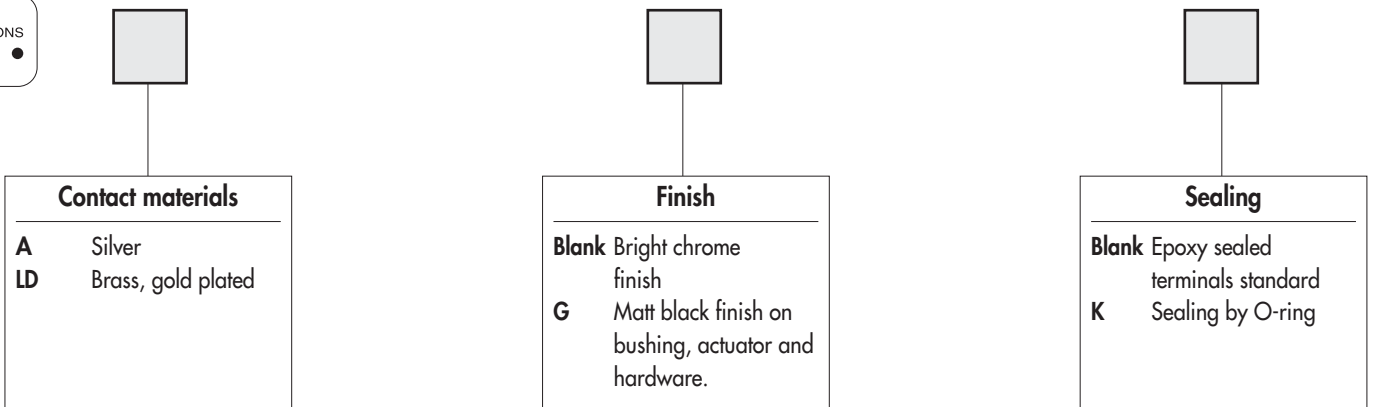
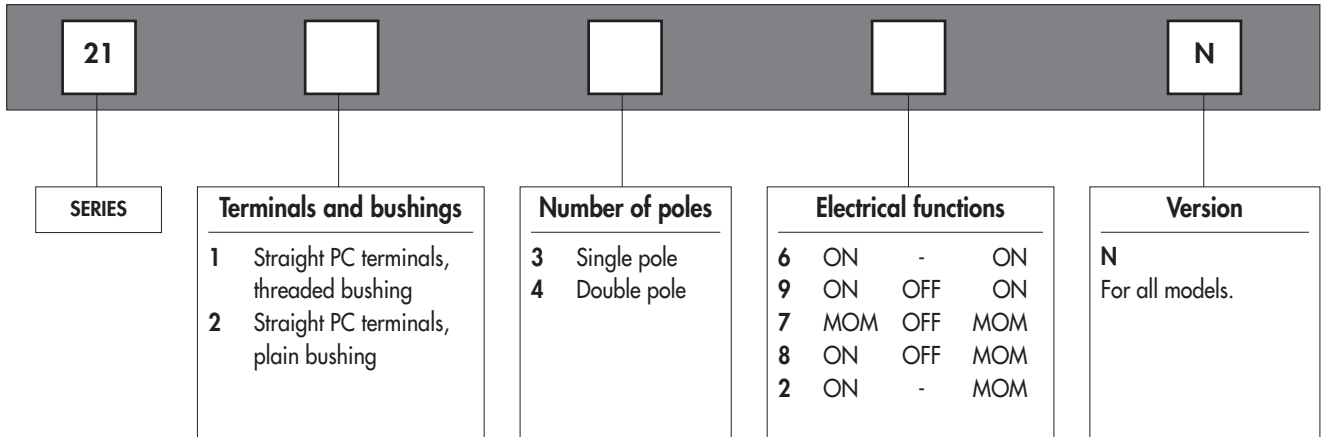
### GENERAL SPECIFICATIONS

- Operating temperature : -40°C to +85°C

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Overview



### ABOUT THIS SERIES

On the following pages, you will find successively :

- model structure of switches
- options in the same order as in above chart

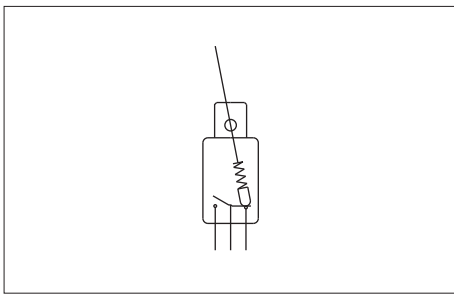
**Dimensions** : first dimensions are in mm while inches are shown as bracketted numbers.



**Mounting accessories** : standard hardware supplied with all models with threaded bushing : 2 hex nuts 8 mm (.314) across flats. Standard and special hardware available are presented in section I.



**Packaging unit** : 50 pieces for SP models, 25 pieces for DP.



- Epoxy sealed terminals standard
- 1 and 2 pole configurations

MODEL  
STRUCTURE

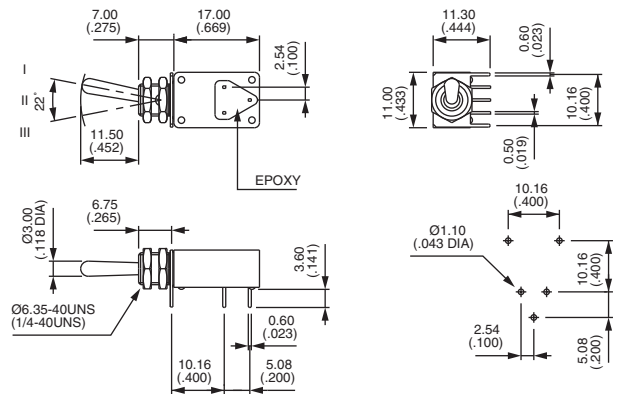


### Threaded bushing - single pole



21136N  
21139N  
21137N  
21138N  
21132N

III	II	I
2-3		1-2
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
ON	OFF	MOM
ON	-	MOM

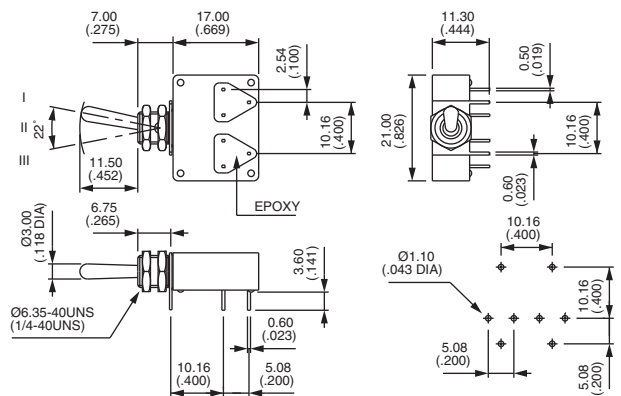


### Threaded bushing - double pole



21146N  
21149N  
21147N  
21148N  
21142N

III	II	I
2-3		1-2
5-6		4-5
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
ON	OFF	MOM
ON	-	MOM

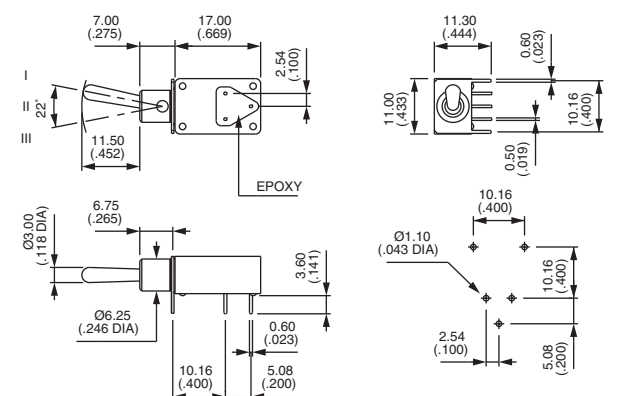


### Plain bushing - single pole



21236N  
21239N  
21237N  
21238N  
21232N

III	II	I
2-3		1-2
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
ON	OFF	MOM
ON	-	MOM



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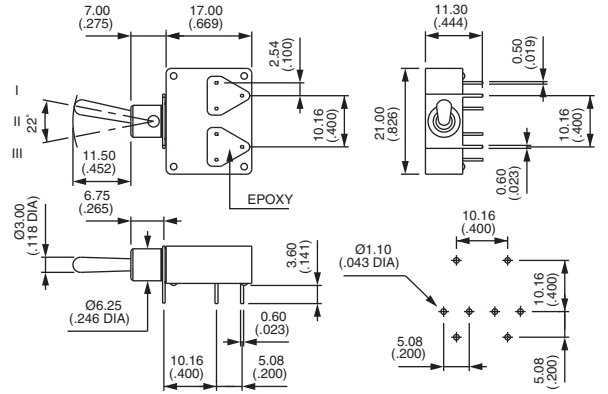


## Plain bushing - double pole

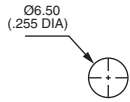


21246N  
21249N  
21247N  
21248N  
21242N

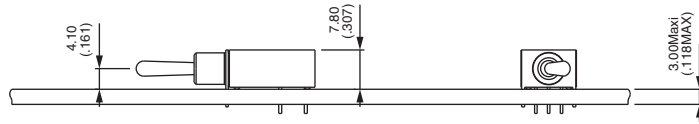
III	II	I
2-3		1-2
5-6		4-5
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
ON	OFF	MOM
ON	-	MOM



### PANEL CUT-OUT

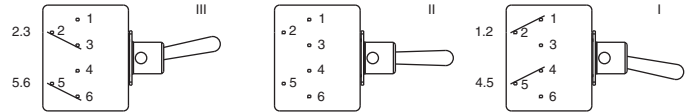


### PCB MOUNTING



### POSITIONS AND CONNECTIONS

Bottom view



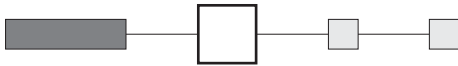
Function 6	ON	-	ON
Function 9	ON	OFF	ON
Function 7	MOM	OFF	MOM
Function 8	ON	OFF	MOM
Function 2	ON	-	MOM



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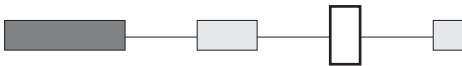
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## CONTACT MATERIALS



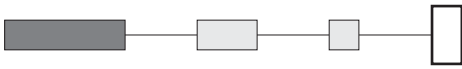
- A Silver
- LD Brass, gold plated

## FINISH



- Blank Bright chrome finish on actuator, nickel plating for bushing and hardware.
- G Matt black finish on bushing, actuator and hardware

## SEALING



Epoxy sealed terminals are standard.

- Blank No sealing except standard.
- K Bushing internally sealed by one O-ring (version without washer U360). Protects the switch against water and dust.

