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SW-21000N-1711

21000N series

Low profile toggle switches



DISTINCTIVE FEATURES

Threaded or plain bushing, 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) : 4 A 30 VDC
  - gold plated brass contacts (LD) : 100 mA 30 VDC
- Minimum load :
  - silver contacts (A) : 100 mA 10 V
  - gold plated brass contacts (LD) : 10 µA 5 VDC - 10 mA 50 mV
- Initial contact resistance : 20 mΩ max.
- Insulation resistance : 1,000 MΩ min. at 500 VDC
- 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

GENERAL SPECIFICATIONS

- Low level or mechanical life : 100,000 cycles.
- Operating temperature : -40 °C to +85 °C (-40 °F to +185 °F)

MATERIALS

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

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.

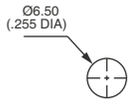
The company reserves the right to change specifications without notice.

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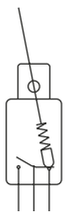
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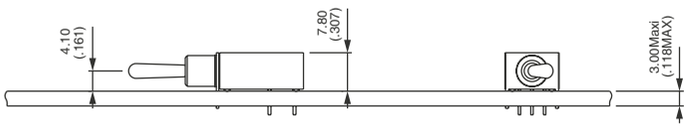
PANEL CUT-OUT



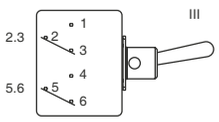
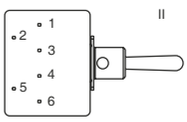
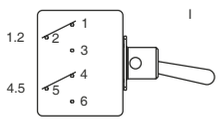
ELECTRICAL FUNCTIONS



PCB MOUNTING



POSITIONS AND CONNECTIONS

Bottom view			
	III	II	I
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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BUILD YOUR PART NUMBER

BASIC PART NUMBER

21	_	_	_	_
SERIES	TERMINALS AND BUSHINGS	NUMBER OF POLES	ELECTRICAL FUNCTIONS	VERSION

TERMINALS AND BUSHINGS

1	Straight PC terminals, threaded bushing
2	Straight PC terminals, plain bushing

NUMBER OF POLES

3	Single pole
4	Double pole

ELECTRICAL FUNCTIONS

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

VERSION

N	For all models.

OPTIONS

CONTACT MATERIALS		FINISH		SEALING	
A	Silver	Blank	Bright chrome finish	Blank	Epoxy sealed terminals standard
LD	Brass, gold plated	G	Black finish on bushing, actuator and hardware.	K	Sealing by O-ring

ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

Notice : please note that not all combinations of above numbers are available. Refer to the following pages for further information.

Mounting accessories : standard hardware supplied with all models with threaded bushing : 2 hex nuts 8 mm (.314) across flats. Standard and special hardware available is presented in the “Hardware“ section of website.

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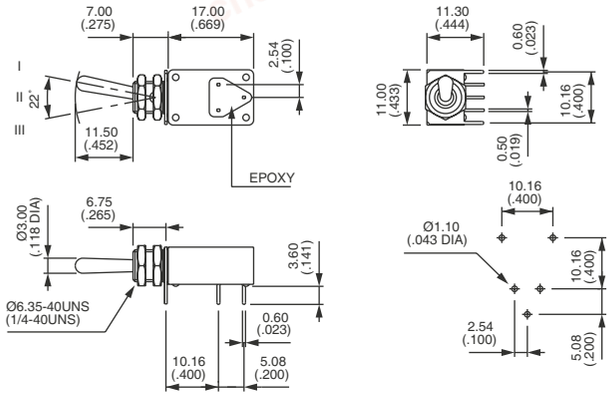
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THREADED BUSHING - SINGLE POLE



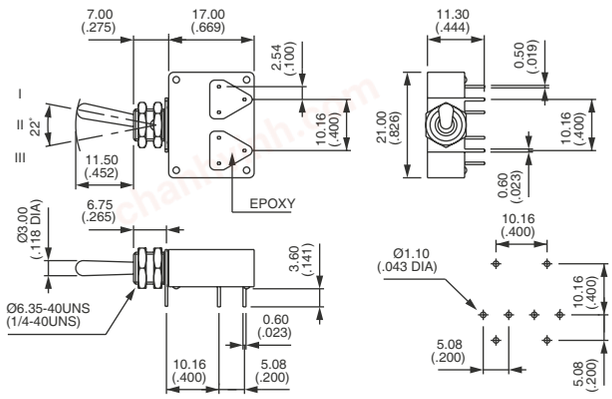
	III 2-3	II	I 1-2
21136N	ON	-	ON
21139N	ON	OFF	ON
21137N	MOM	OFF	MOM
21138N	ON	OFF	MOM
21132N	ON	-	MOM



THREADED BUSHING - DOUBLE POLE



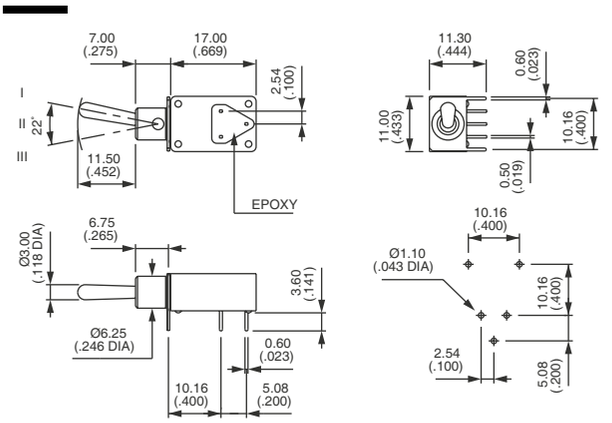
	III 2-3 5-6	II	I 1-2 4-5
21146N	ON	-	ON
21149N	ON	OFF	ON
21147N	MOM	OFF	MOM
21148N	ON	OFF	MOM
21142N	ON	-	MOM



PLAIN BUSHING - SINGLE POLE



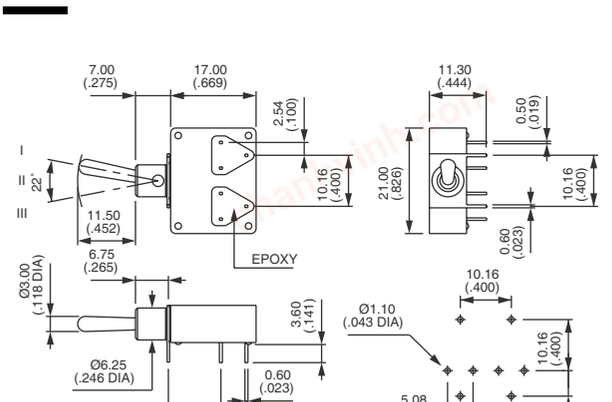
	III 2-3	II	I 1-2
21236N	ON	-	ON
21239N	ON	OFF	ON
21237N	MOM	OFF	MOM
21238N	ON	OFF	MOM
21232N	ON	-	MOM



PLAIN BUSHING - DOUBLE POLE



	III 2-3 5-6	II	I 1-2 4-5
21246N	ON	-	ON
21249N	ON	OFF	ON
21247N	MOM	OFF	MOM
21248N	ON	OFF	MOM
21242N	ON	-	MOM



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CONTACT MATERIALS

BASIC P/N

A Silver
LD Brass, gold plated

FINISH

BASIC P/N

Blank Nickel plating on bushing, actuator and hardware.
G Black finish on bushing, actuator and hardware.

SEALING

BASIC P/N

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.

