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

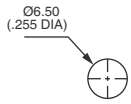
APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.

The company reserves the right to change specifications without notice.

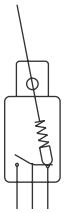
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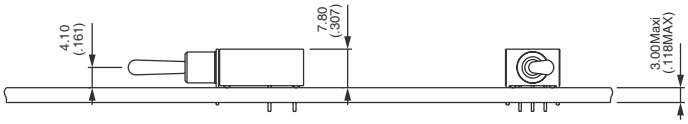
PANEL CUT-OUT



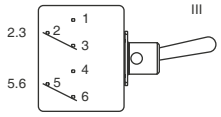
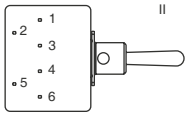
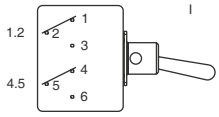
ELECTRICAL FUNCTIONS



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

CONTACT MATERIALS

A	Silver
LD	Brass, gold plated

FINISH

Blank	Bright chrome finish
G	Black finish on bushing, actuator and hardware.

SEALING

Blank	Epoxy sealed terminals standard
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.

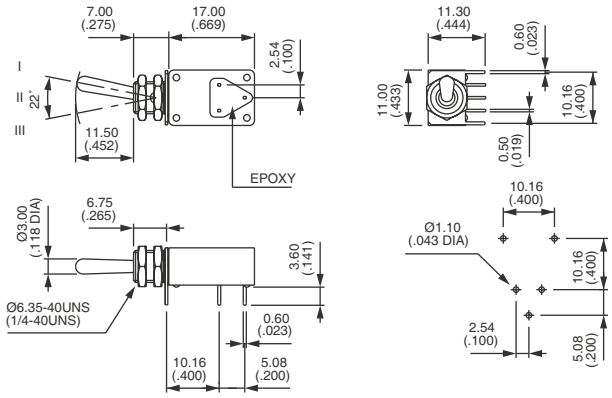
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THREADED BUSHING - SINGLE POLE



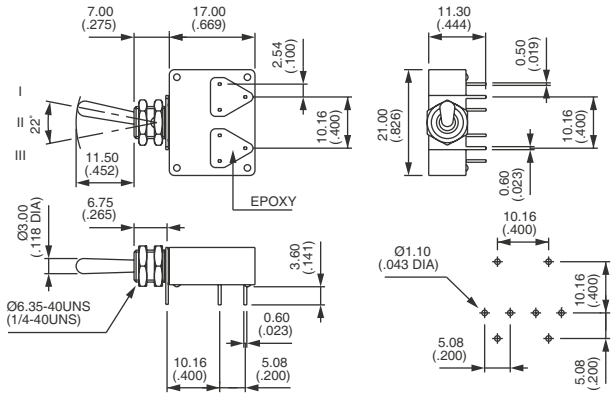
	III 2-3	II	I 1-2
21136N	ON	-	ON
21139N	ON	OFF	ON
21137N	MOM	OFF	MOM
21138N	ON	OFF	MOM
21132N	ON	-	MOM



THREADED BUSHING - DOUBLE POLE



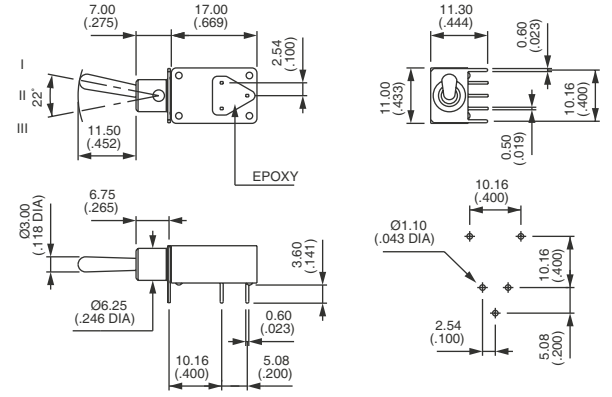
	III 2-3 5-6	II	I 1-2 4-5
21146N	ON	-	ON
21149N	ON	OFF	ON
21147N	MOM	OFF	MOM
21148N	ON	OFF	MOM
21142N	ON	-	MOM



PLAIN BUSHING - SINGLE POLE



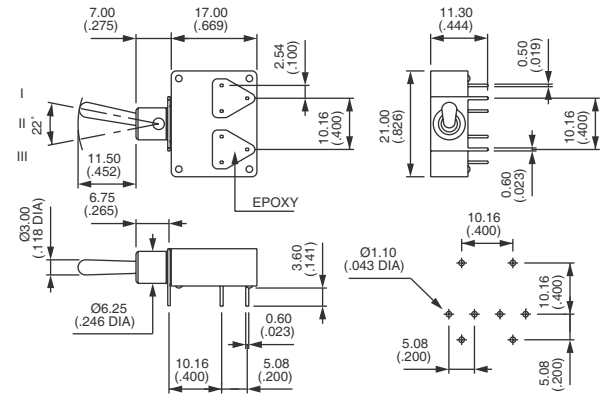
	III 2-3	II	I 1-2
21236N	ON	-	ON
21239N	ON	OFF	ON
21237N	MOM	OFF	MOM
21238N	ON	OFF	MOM
21232N	ON	-	MOM



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



21000N series

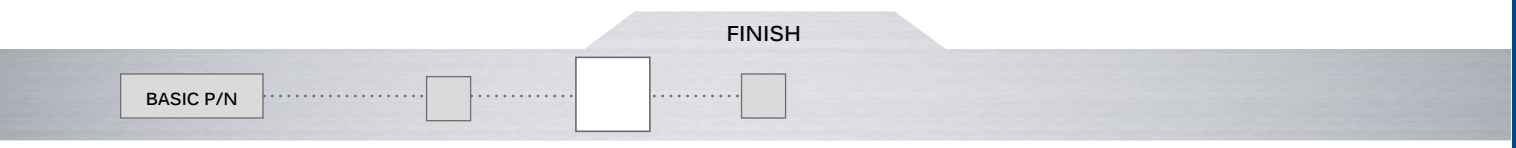
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CONTACT MATERIALS



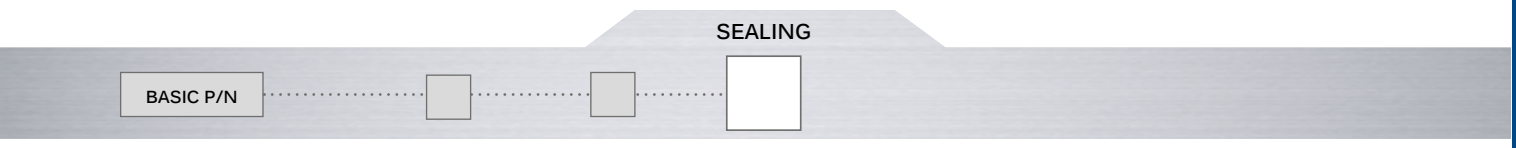
A Silver
LD Brass, gold plated

FINISH



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

