Sealed rocker switches



SWFNR-0820

## DISTINCTIVE FEATURES

Ideal for front / neutral / reverse selection Easy to install Excellent front panel sealing Backlit logos



### ENVIRONMENTAL SPECIFICATIONS

- Operating temperature : -40 °C to +85 °C (-40 °F to +185 °F)
- Panel sealing; IP69K according to DIN 40050-9



## ELECTRICAL SPECIFICATIONS

- Maximum voltage rating with resistive load: 24 VDC
- $\bullet$  Current rating with resistive load: 0.03 to 1 A
- Initial contact resistance: <100 mohms
- Insulation resistance: >10 Gohms at 500 VDC
- Dielectric strength: 1000 Vrms 50 Hz min.
- Electrical life: 1.000.000 cycles at 100 mA 100.000 cycles at 1 A

LED COMPONENT SPECIFICATIONS				
LED color	Forward current	Typ. forward voltage	Max. forward voltage	
Blue	20 mA	3.3 V	4 V	
Green	20 mA	2.1 V	2.5 V	
Red	20 mA	1.9 V	2.5 V	
Yellow	20 mA	2 V	2.5 V	
White	20 mA	3.3 V	4 V	
Red/green	20 mA	Red: 1.9 V / green: 2.1 V	2.5 V	

A resistor must be series-connected by the user. Resistor value = supply voltage - LED forward voltage

LED forward current





## Sealed rocker switches



## ) GENERAL SPECIFICATIONS

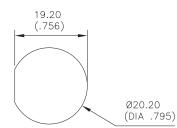
- Total travel: ± 15°.
- Typical operating force at center: 5 N  $\pm\,1$
- Mechanical life: 1.000.000 cycles

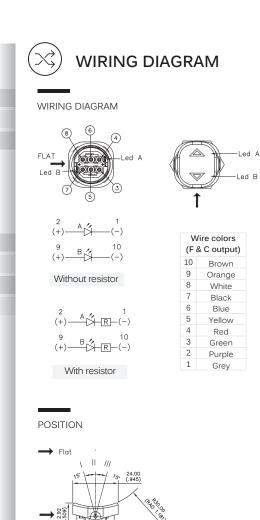
## D MATERIALS

- Contacts : Gold alloy
- Case : PBT
- Actuator : PA6-6
- Overmoulding: Polyamide

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







CONNECTOR FOR C OUTPUT

Illuminated : Molex 510651000

•Non-illuminated : Molex 510650600

## $\frac{1}{2}$ ELECTRICAL FUNCTIONS AND CONNECTIONS

In the tables below, terminal connections as viewed from bottom of switch. Only the contact area is represented.

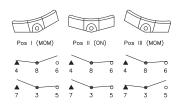
x = w/o terminalo = with terminal = momentary

#### 2 POSITIONS

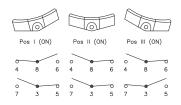


	6	
Pos	s III (O	N)
0 4	•	0
4	8	6
<del>0</del> 7		0 5
7	3	5

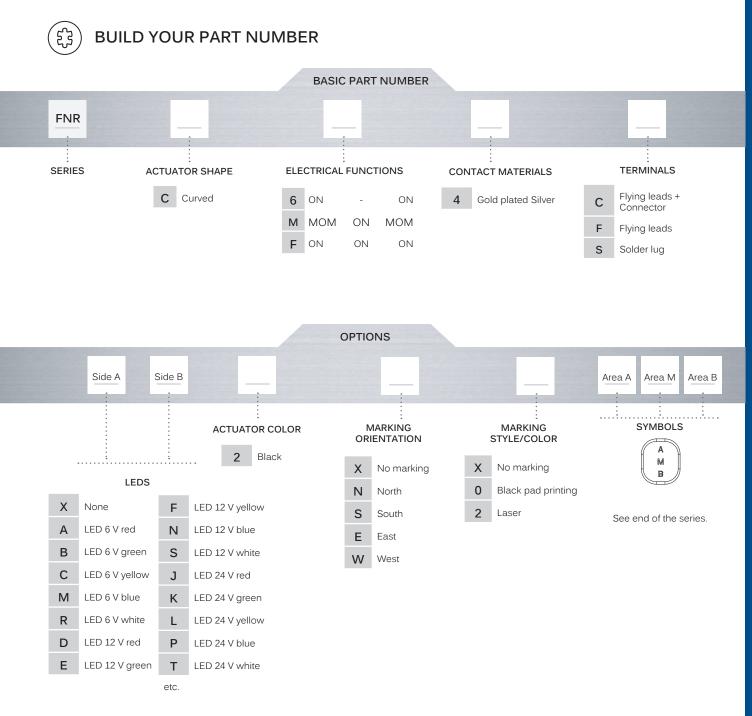
3 POSITIONS MOM-ON-MOM

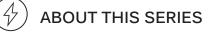


3 POSITIONS ON-ON-ON



### Sealed rocker switches





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 : 1 hex nut and 1 O-Ring

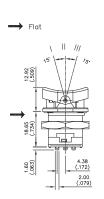
APEM

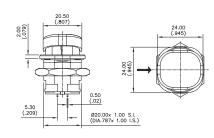
Sealed rocker switches

### SOLDER LUG TERMINALS



CURVED ACTUATOR						
ON		ON				
MOM	ON	MOM				
ON	ON	ON				
	ON MOM	ON MOM ON				

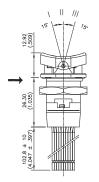




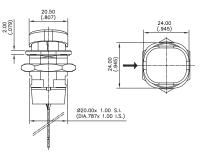
## FLYING LEADS TERMINALS



CURVED ACTUATOR				
FNRC64F	ON		ON	
FNRCM4F	MOM	ON	MOM	
FNRCF4F	ON	ON	ON	



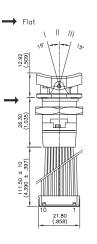
→ Flat

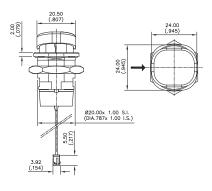


### FLYING LEADS + CONNECTOR TERMINALS



CURVED ACTUATOR					
FNRC64C	ON		ON		
FNRCM4C	MOM	ON	MOM		
FNRCF4C	ON	ON	ON		





Sealed rocker switches

	LEDS
BASIC P/N Side A Side B Side B	

Complete each enlarged box with one of the codes listed below.

#### X Without LED

	Red	Green	Yellow	Blue	White	Red/green
No resistor	U	V	W	Y	Z	-
12 VDC	D	Е	F	Ν	S	2
24 VDC	J	К	L	Р	Т	3

12 VDC is calibrated for 15 VDC max 24 VDC is calibrated for 30 VDC max

