Sealed rocker switches



SW.FMR.0920

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
- 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





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GENERAL SPECIFICATIONS

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



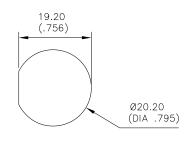
MATERIALS

- 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.



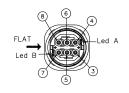
PANEL CUT-OUT

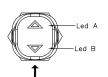




WIRING DIAGRAM

WIRING DIAGRAM







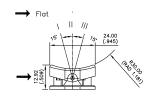
Without resistor

2 (+)—	A Ź R	1 —(-)
9 (+)—	B Ø R	10 —(-)

With resistor

Wire colors (F & C output)		
10	Brown	
9	Orange	
8	White	
7	Black	
6	Blue	
5	Yellow	
4	Red	
3	Green	
2	Purple	
1	Grev	





CONNECTOR FOR C OUTPUT

- Illuminated: Molex 510651000
- •Non-illuminated: Molex 510650600



ELECTRICAL FUNCTIONS AND CONNECTIONS

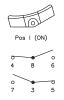
In the tables below, terminal connections as viewed from bottom of switch. Only the contact area is represented.

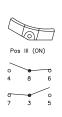
x = w/o terminal

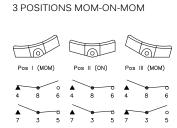
o = with terminal

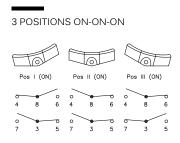
 \triangle = momentary

2 POSITIONS





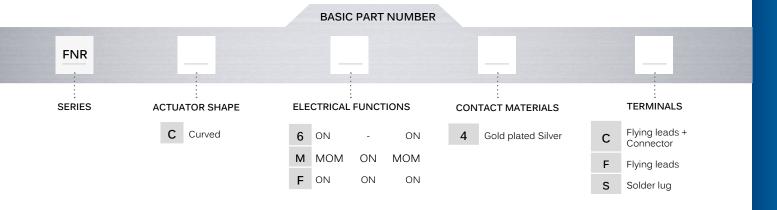


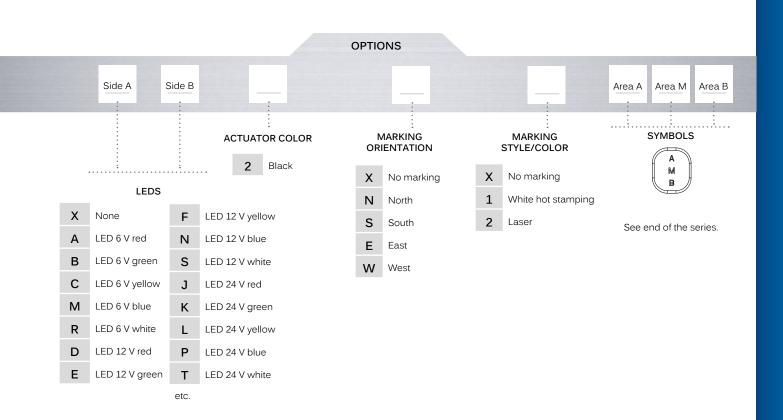


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BUILD YOUR PART NUMBER







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: 1 hex nut and 1 O-Ring

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SOLDER LUG TERMINALS



CURVED ACTUATOR			
FNRC64S	ON		ON
FNRCM4S	MOM	ON	MOM
FNRCF4S	ON	ON	ON

FLYING LEADS TERMINALS

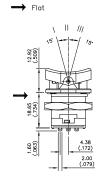


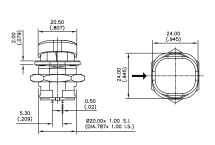
CURVED ACTUATOR			
FNRC64F	ON		ON
FNRCM4F	MOM	ON	MOM
FNRCF4F	ON	ON	ON

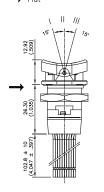
FLYING LEADS + CONNECTOR TERMINALS

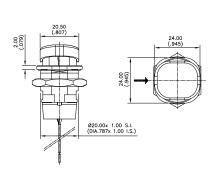


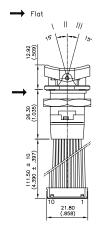
CURVED ACTUATOR			
FNRC64C	ON		ON
FNRCM4C	MOM	ON	MOM
FNRCF4C	ON	ON	ON

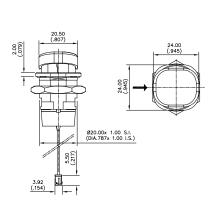




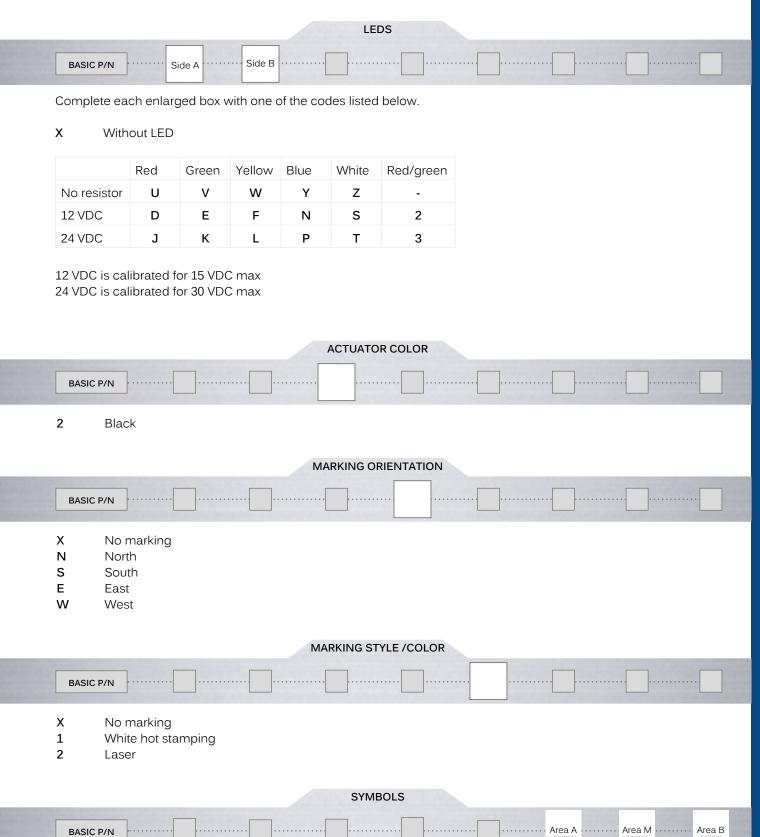








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XXX No marking

Other markings : see logo list

