Sealed rocker switches



SWFNR-2406

DISTINCTIVE FEATURES

Ideal for front / neutral / reverse selection Easy to install Excellent front panel sealing Backlit logos SIL2 capable



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: Max. 100 $m\Omega$
- \bullet Insulation resistance: Min. 100 M Ω at 500 VDC/minute
- Dielectric strength:
- Min. 500 VAC (50-60 HZ)/minute between Live parts
- Min. 1500 VAC (50-60 HZ)/minute between Live parts and dead metal parts
- 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





1

Sealed rocker switches



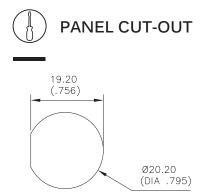
GENERAL SPECIFICATIONS

- Total travel: ± 15°.
- Typical operating force at center: 5 N ± 1
- Mechanical life: 1.000.000 cycles
- Torque: 1Nm min. 2Nm max. applied to nut

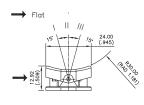
MATERIALS

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

 Output wires (flying leads terminals): AWG24, section 0.23 mm² APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.



WIRING DIAGRAM			
FLAT Led B 7 5 3			ed A d B
$ \begin{array}{c} 2 \\ (+) \\ 9 \\ 9 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10$		ire colors & C output)	
(+)B//(-)	10	Brown	
	9	Orange	
Without resistor	8	White	
	7	Black	
2 1	6	Blue	
	5	Yellow	
	4	Red	
9 10 (+)	3	Green	
	2	Purple	
With resistor	1	Grey	
POSITION			



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 \blacktriangle = momentary

2 POSITIONS

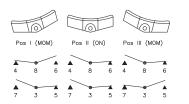
10



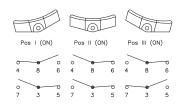
PEN

9	1]
Pos	III (ON)	
0 4	8	р 6
o	3	05

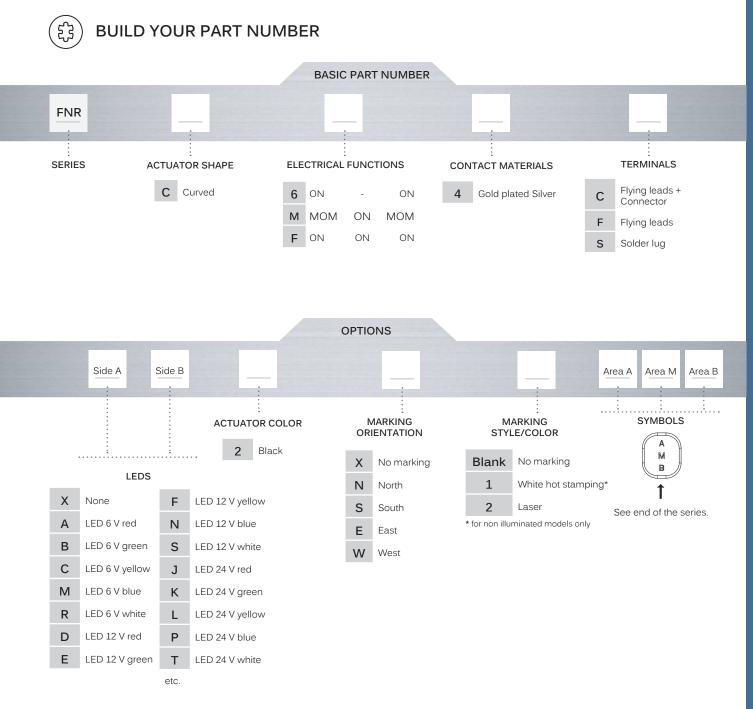




3 POSITIONS ON-ON-ON



Sealed rocker switches



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

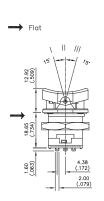
APEM

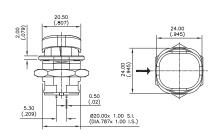
Sealed rocker switches

SOLDER LUG TERMINALS



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

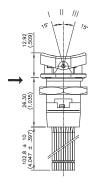




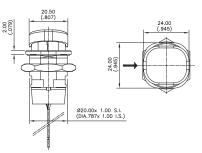
FLYING LEADS TERMINALS



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



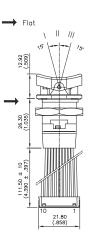
→ Flat

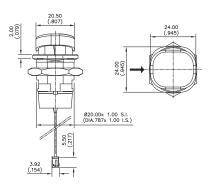


FLYING LEADS + CONNECTOR TERMINALS

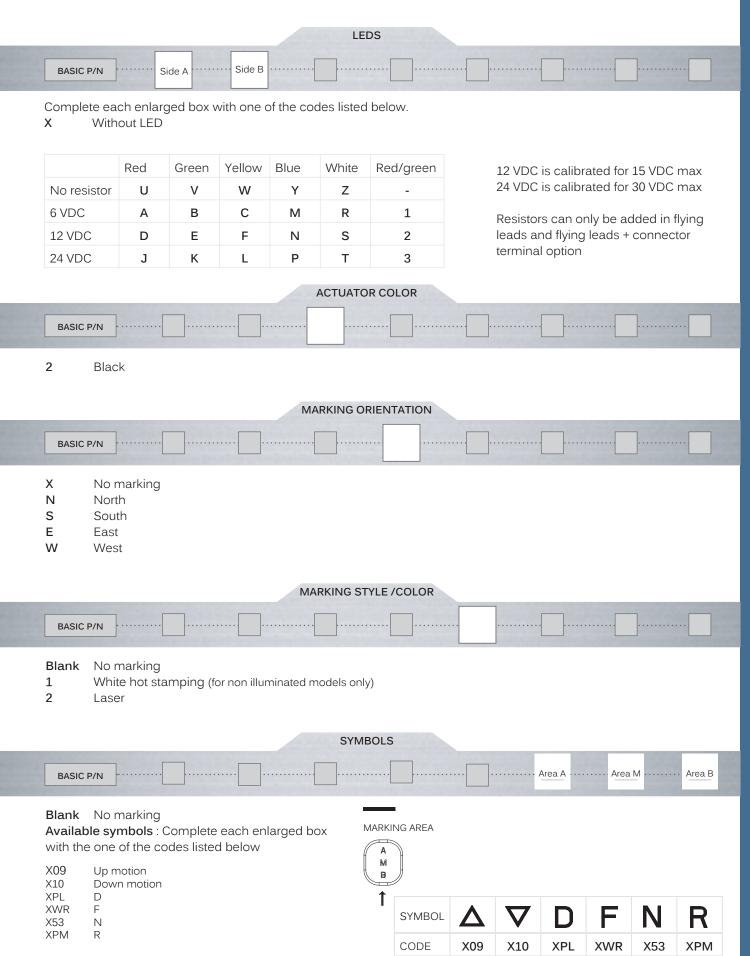


CURVED ACTUATOR			
FNRC64C	ON		ON
FNRCM4C	MOM	ON	MOM
FNRCF4C	ON	ON	ON





Sealed rocker switches



APEM