SWFTUR 2406

FNR series

Sealed rocker switches



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 Ω
- 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
- 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
- Torque: 1Nm min. 2Nm max. applied to nut

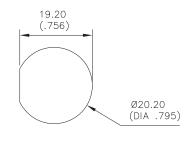


MATERIALS

- 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.



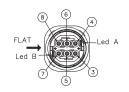
PANEL CUT-OUT

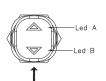




WIRING DIAGRAM

WIRING DIAGRAM







Without resistor

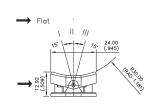
2 (+)—	A ŹH R	1 —(-)
9 (+)—	B / R	10 —(-)

With resistor

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

Wire colors

POSITION



CONNECTOR FOR C OUTPUT

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



ELECTRICAL FUNCTIONS AND CONNECTIONS

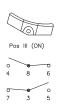
In the tables below, terminal connections as viewed from bottom of switch. Only the contact area is represented.

x = w/o terminal o = with terminal

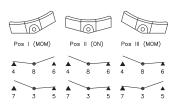
▲ = momentary

2 POSITIONS

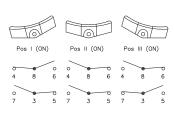




3 POSITIONS MOM-ON-MOM



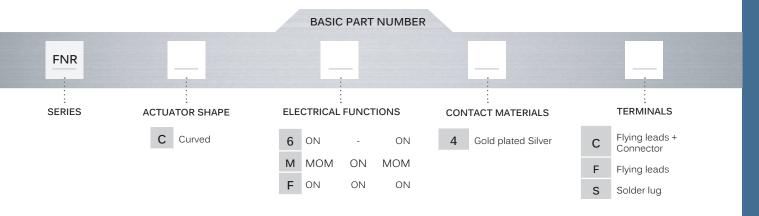
3 POSITIONS ON-ON-ON

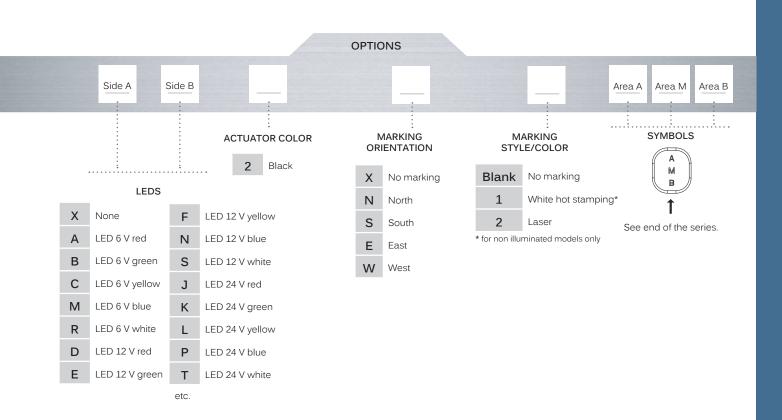


Sealed rocker switches



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

Sealed rocker switches

SOLDER LUG TERMINALS



CURVED ACTUATOR							
FNRC64S	ON		ON				
FNRCM4S	MOM	ON	MOM				
ENRCE4S	ON	ONI	ON				

FLYING LEADS TERMINALS

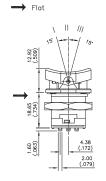


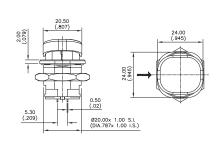
CURVED ACTUATOR FNRC64F ON ON								
FNRC64F	ON		ON					
FNRCM4F	MOM	ON	MOM					
FNRCF4F	ON	ON	ON					

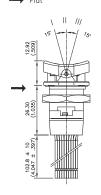
FLYING LEADS + CONNECTOR TERMINALS

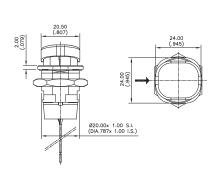


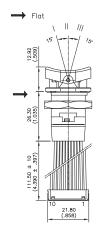
CURVED ACTUATOR								
FNRC64C	ON		ON					
FNRCM4C	MOM	ON	MOM					
FNRCF4C	ON	ON	ON					

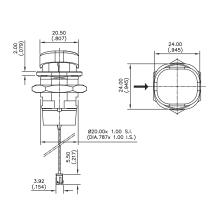












Sealed rocker switches

					LE	DS						
BASIC P/N		Side A	Side B									
Complete eac	ch enlar out LED		vith one o	of the cod	des listed	below.						
	Red	Green	Yellow	Blue	White	Red/green				rated for		
No resistor	U	V	W	Υ	Z	-		24 VDC	is calibr	rated for	30 ADC	max
6 VDC	A	В	С	M	R	1				nly be ac		
12 VDC	D	E	F .	N	S	2		leads and flying leads + connector terminal option				tor
24 VDC	J	K	L	Р	Т	3						
					ACTUATO	R COLOR						
BASIC P/N	[1	
BASIC P/N												
2 Blac	k											
				MA	RKING O	RIENTATION						
										5555		
BASIC P/N								• • • • • • • • • • • •				
X Non N Nort S Sout E East W Wes	h											
				MA	RKING ST	YLE /COLOR						
BASIC P/N	[
1 Whit	1 White hot stamping (for non illuminated models only)											
					SYMI	BOLS						
BASIC P/N									Area A ····	Area	М	- Area B
Available synwith the one X09 Up m X10 Down XPL D XWR F	of the co			arged bo	ox M	MARKING AREA A M B SYMBOL	^	∇	П	F	N	R
X53 N XPM R						CODE	X09	¥10	XPI	X/V/R	X53	XPM