HALL EFFECT FORWARD/NEUTRAL/REVERSE ROCKER

3-POSITION ANALOG OUTPUT SNAP-IN ROCKER WITH BACKLIGHTING





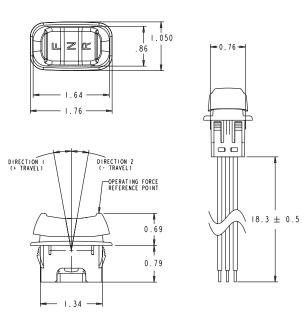
The HFNR is compact, robust and reliable, ideal for grip or panel mount applications. This 3-position switch provides operator comfort by reducing the movement required to change direction or switch gears. Backlighting provides enhanced visibility; making them easy to see in poor lighting or nighttime operation. The electronics are sealed to IP68S, the switch has excellent EMI/RFI immunity, and a mechanical life of three million cycles.

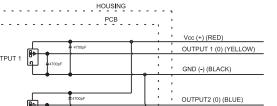
Features:

- 3 million cycle life, full forward to full backward
- Hall effect contactless sensing technology
- Choice of bezel and button colors
- 2V to 24V LED backlighting options
- **Electronics sealed to IP68S**
- **Outstanding EMI/RFI immunity**
- Snap-in panel mounting—accepts multiple panel thicknesses
- **RoHS/WEEE/Reach compliant**

Standard Characteristics/Ratings:						
MECHANICAL:						
Mechanical Life: 3,000,000 full forward to full back						
Angle of Throw Between Adjacent Positions: 10 degrees typical						
Max Allowable Radial Load: 30.0 lbs.						
ELECTRICAL RATINGS:						
Flectrical	<u> </u>	Units	Min	Тур	Max	
Supply Voltage		VDC	4.5	5	5.5	
Output Voltage, Tolerance		VDC	-0.35	N/A	+0.35	
at Center		@ 5V Vcc	-0.55	IV/A	+0.03	
Output Voltage, Tolerance		VDC	-0.35	N/A	+0.35	
at Full Travel		@ 5V Vcc				
Supply Current Per Sensor		mA	N/A	N/A	10	
ELECTRONICS:						
Seal:	Electronics sealed to IP68S					
ENVIRONMENTAL:						
Operating Temp Range:	-40°C to +85°C					
Humidity:	96% RH, 70°C, 96 hours					
Vibration:	Per MIL-810F minimum integrity					
EMI:	Withstand per SAE J1113 (contact factory for details)					
RFI:	Withstand per SAE J1113 (contact factory for details)					
MATERIALS:						
Button:	Thermoplastic					
Bezel:	Thermopla	Thermoplastic				
Mounting Hardware:	None provided					

3-POSITION ANALOG OUTPUT SNAP-IN ROCKER WITH BACKLIGHTING





LED ANODE + (ORANGE)

LED CATHODE (WHITE)

WIRING OPTION 1

COMMON POWER AND GROUND

OUTPUT 2 AND LED ARE NOT PRESENT IN ALL CONFIGURATIONS

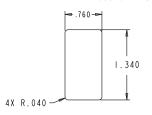
WIRING OPTION 2 SEPARATE POWER AND GROUND

MOUNTING:

RECOMMENDED PANEL THICKNESS: 0.112 OPTIMUM THICKNESS (0.040 MIN. - 0.205 MAX.)

RECOMMENDED PANEL OPENING: 0.760 X 1.340 OPTIMUM (0.760/.770 X 1.335/1.345)

RECOMMENDED PANEL RADII: 0.040 OPTIMUM (0.070 MAX.)



HOUSING OUTPUT 1 (0) (YELLOW) OUTPUT 1 GND (-) (BLACK) Vcc (+) (VIOLET) OUTPUT2 (0) (BLUE) GND (-) (GREEN) LED ANODE + (ORANGE) LED CATHODE (WHITE) OUTPUT 2 AND LED ARE NOT PRESENT IN ALL CONFIGURATIONS

HFNR PART NUMBER CODE HFNR X Output 2 Wiring Light Source ① Output 1 ② **Operating Force** Button **Termination** Bezel Button **FNR** Direction 1 & 2 to Center/ Option Style Color 3 Color 3 Legend Center to Direction 1 & 2 A. NONE A. NONE 1. 2.6/3.6 lbs. A. 20 AWG Wires **1**. Red A. 4.5/2.5/0.5VDC NONE @ 1. Common 1. Rocker 1. Red 18.3" Long, Power and B. 2V Green LED **B.** 4.5/2.5/0.5VDC 4.5/2.5/0.5VDC 2. Black 2. Black ① B. FNR/White ① Stripped and Ground 4 C. 2V Amber LED C. 4.5/2.5/0.5VDC 0.5/2.5/4.5VDC 4. Yellow 3. Orange 2. Separate Tinned Ends D. 5V Green LED D. 4.0/2.5/1.0VDC 4. Yellow NONE 4 6. Blue Power and E. 5V Amber LED E. 4.0/2.5/1.0VDC 4.0/2.5/1.0VDC 5. Green 8. Gray Ground F. 12V Green LED F. 4.0/2.5/1.0VDC 1.0/2.5/4.0VDC 6. Blue **G**. 12V Amber LED **G.** 1.0/2.5/4.0VDC 4.0/2.5/1.0VDC 7. Violet H. 1.0/1.0/4.0VDC 4.0/1.0/1.0VDC H. 24V Green LFD 8. Gray J. 24V Amber LED 9. White

- ① Only button color black is available on backlit version; only legend color translucent white is available on backlit version.
- ② Outputs are when switch is in detented position.
- 3 Minimum lot charges may apply for certain color options.
- For single output switches, wiring option 1 should be selected.