



FNR Series
Mini joystick



Features

- Standard delivery time 2-3 weeks
- Three-position hall effect switch
- Single axis thumb controller
- Standard IP67 grade protection above panel

Applications

- Forward/Neutral/Reverse operations
- Industrial remote controllers
- Marine winch control
- (Outdoor) Control panels
- Landscaping machines

Description

This single axis mini thumb controller operates as a three-position switch and comes with an above panel protection of IP67, making it ideal for many industrial applications. It's contactless Hall Effect working principle and rugged construction ensure a minimum life cycle of 3 million. For easy mounting and installation, a nut and 28AWG cable are provided.

Specification

MECHANICAL (X & Y AXIS)	
Angle Of Movement	50° (25° Each Direction)
Expected Cycle Life	3 million (Full Forward to Full Back)
Max. Vertical load	300 N (67.5 lbf)
Max. Horizontal load	222 N (50 lbf*)
Actuation force	150g ± 10% Nominal, Into POS. 2 350g ± 10% Nominal, Out of POS. 2
* Measured 15.75 mm (0.62") Above Panel Surface	
ELECTRICAL	
Sensor type	hall effect
Supply voltage	5.00 V ± 0.01V
Center voltage (pos. 2)	2.50 V ± 0.25 V
Full travel voltage (pos. 1, pos. 3)	V ² ± 0.10V
Overvoltage max.	20VDC
Reverse polarity max.	-10VDC

² Voltage per user specified range

■ Specification

ENVIRONMENTAL	
Operating Temperature	-18°C to 60°C (0°F to 140°F)
Storage Temperature	-40°C to 71°C (-40°F to 160°F)
IP Sealing Above Flange	IP67
EMC Immunity level	EN61000-4-3 *Compliance to 30A/m ³
EMC Emissions level	EN61000-6-3
ESD Immunity level	EN61000-4-2 *Compliance to ±15kV/±8kV ³
Vibration testing	Per SAE J1455 Section 4.9 & MIL-STD810G 514.6
Mechanical shock	Per SAE J1455 Section 4.10 & MIL-STD-202G

³ Extended Testing Levels

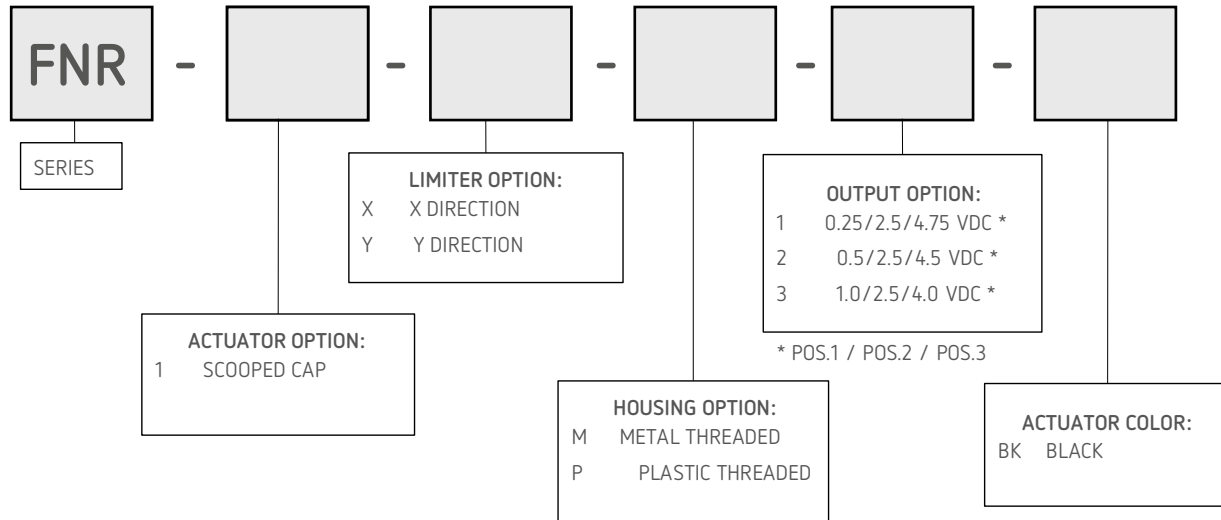
MOLEX 530480510 CONNECTOR		
PIN	Wire colour	Description
1	red	power (+5V)
2	black	ground
3	blue	x axis sensor
4	yellow	y axis sensor
5	orange	n/a

MATERIALS	
Plastic housing	Mineral & glass filled nylon
Metal housing	Gold anodized aluminium
Boot & actuators	Silicone

IP RATING: IP67 (ABOVE PANEL, ALL CONFIGURATIONS)



■ Product Configuration Guide



Mounting Options

Dimensions in millimeters (inches).

