

FPR

Proportional Roller Switch with Hall Effect Sensor

Features

- . Mini Proportional Roller Switch with optimum ergonomic design for panel-mounting
- . High performance Hall Effect Sensor Circuitry
- . Twin Channel configuration for redundancy

Mechanical Specifications

- . Rotation angle: +/- 30°
- . Body material (yellow colour): Acetal resin / Teflon compound
- . Rubber gaiter material: EPDM / 35-45 shore - A
- . Operating temperature range: -25°C / + 85° C
- . Environmental protection: IP 68 (above panel)
- . Life: >5.000.000 cycles

Electrical Specifications

- . Supply voltage: H -Version = 8-32 Vdc
0 -Version = 5 Vdc +/-5%
- . Current consumption at rest: SNCH (S1 only) 15 mA
TWCH (S1/S2) 25 mA
- . Signal output @ rest: 2.5 Vdc +/-0.1V
- . Full output signal range: 0.5 - 4.5 V, +/-0.2V
- . Rated output current: 1 mA
- . Wire type: flat cable 100 mm

Electrical Connections

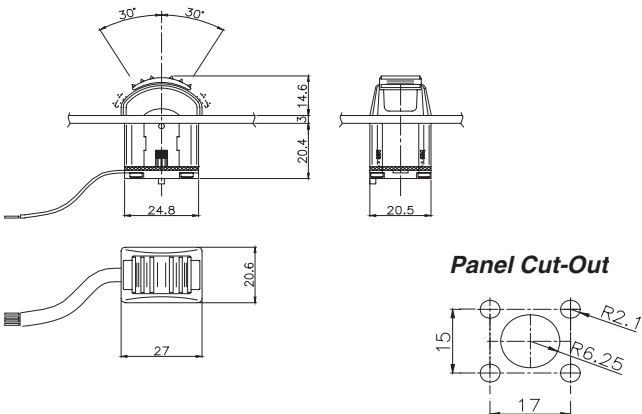
FPR - L2S - SNCH (Single chan.)

- Yellow: + 5Vdc
- Orange: (-) Ground
- Red: Output 1 (S1)
- Brown: not used

FPR - L2S - TWCH (Twin chan.)

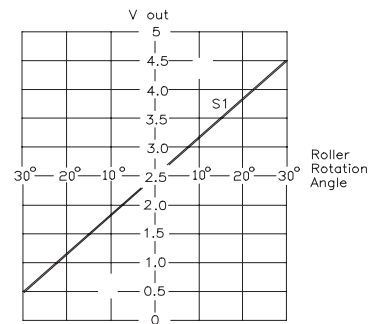
- Yellow: + 5Vdc
- Orange: (-) Ground
- Red: Output 1 (S1)
- Brown: Output 1 (S2)

Overall Dimensions

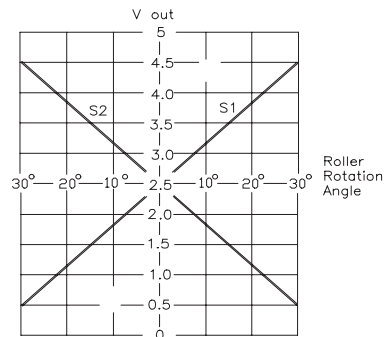


Output Signal Control Characteristic

FPR - L2S - SNCH (Single Channel)



FPR - L2S - TWCH (Twin Channel)



Ordering Information: see page 6

WARNING: The specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

FPR - PWM

Proportional Roller Switch with PWM driver

Features

- . Mini Proportional Roller Switch with optimum ergonomic design for panel-mounting
- . High performance Hall Effect Sensor Circuitry
- . PWM electronic driver integrated into the roller for remote control of a dual-coil proportional solenoid valve

Mechanical Specifications

- . Rotation angle: +/- 30°
- . Main body material (yellow colour): Acetal resin / Teflon compound
- . Rubber gaiter material: EPDM / 35-45 shore - A
- . Operating temperature range: -25°C / + 85° C
- . Environmental protection: IP 68 (above panel)
- . Life: >5.000.000 cycles

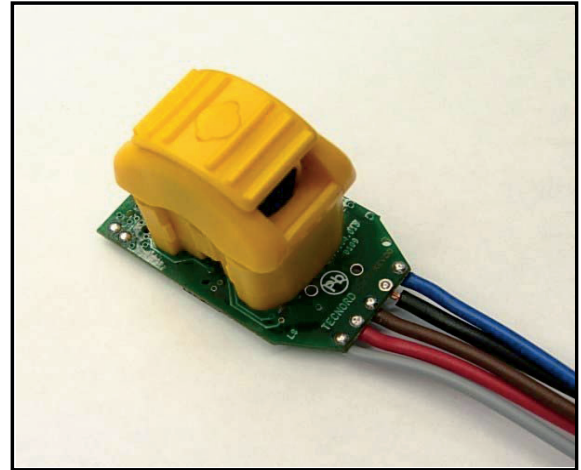
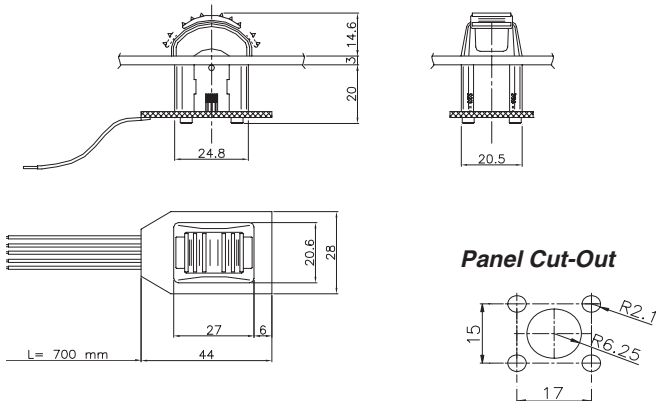
Electrical Specifications

- . Supply voltage: 8-32 Vdc
- . Current consumption with no load: 100 mA
- . Operating temperature range: -25 °C / + 85°C
- . Current output range (PWM): 100 -1500 mA @ 12 Vdc
- . PWM dither frequency: 100 Hz
- . Wire lenght: 700 mm
- . Wire type: GLX 0.5 sqmm

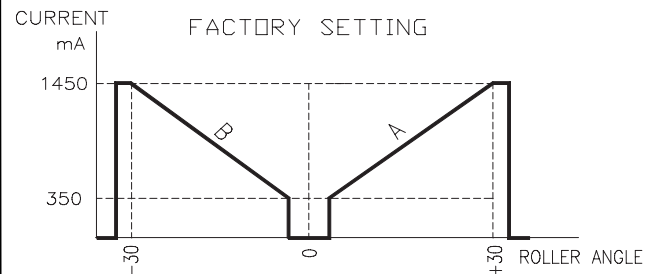
Electrical Connections

- Red: +Battery
- Black: -Battery (GND)
- Blue: PWM Valve A+
- Brown: PWM Valve B+
- Gray: PWM A/B- (common)

Overall Dimensions



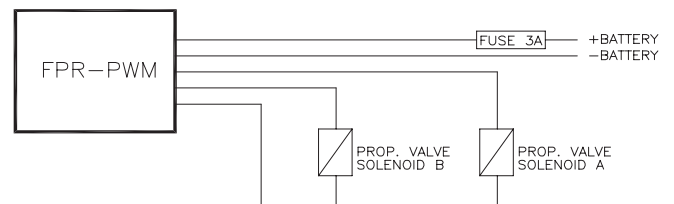
PWM Output Characteristic (example)



The following values are factory set:

- . Imin (minimum output current)
- . Imax (maximum output current)
- . Dither

Application example



Ordering Code: 23.0409.160

(Imin=200mA, I max=1450mA, PWM=100Hz)

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