RPPS-HS SERIES ROTARY POTENTIOMETER ANGLE POSITION SENSOR

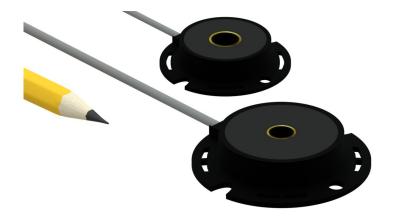
Flat Shaft Rotary Position Sensor

FEATURES

- 0° to 350° rotational angle
- Full 360° mechanical rotation
- Compact lightweight design
- Hollow shaft for ease of mounting

APPLICATIONS

- Quarter-turn valves
- Flue dampers
- Throttle position
- Dancer arm tensioning



OVERVIEW

The RPPS-HS series rotary position potentiometer sensors are used to track the rotational position of a target. They provide an analog voltage output proportional to shaft rotation over a total range of 350°. Typical termination for this sensor is a 3-wire 1 meter (36 in) cable, custom options may be available upon request.

RPPS-HS series sensors are enclosed in a 24mm or 36mm diameter housing, with a centered hollow shaft. Mechanically, the sensor can rotate a full 360°. The resistive potentiometric element is made from conductive plastic. The output signal is ratiometric; from 0% to 100% of excitation voltage, increasing as it is rotated counter-clockwise.

The RPPS-HS has an absolute output characteristic, which is a benefit over incremental output sensors such as optical encoders that lose their position information in the event of a power failure.

SPECIFICATIONS

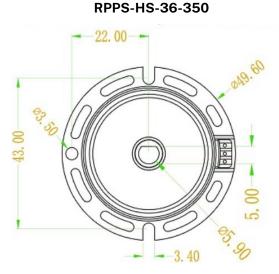
Input Voltage:	5 VDC max	
Full Scale Output:	0 to 100% of input voltage (potentiometer circuit)	
Resolution:	Infinite	
Element Type:	Conductive plastic	
Operating Current:	Input voltage / Potentiometer resistance value	
Non-linearity, Full stroke: Best Fit Straight Line (BFSL)	<±0.5% (typical), <±1.0% (max)	
Operating temperature:	-40°C to 85°C (-40°F to 185°F)	
Temperature coefficient:	≤±0.03% of FSO/°C nominal	
Resistance (RPPS-HS-24):	4,000Ω ±20%	
Resistance (RPPS-HS-36):	5,000Ω ±20%	
Repeatability:	0.1°	
Shock Rating:	50g (single hit) / IEC68-2-29	
Vibration Rating:	20g / IEC68-2-6	
IP Rating:	IP61	



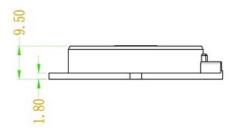


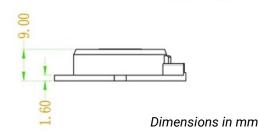
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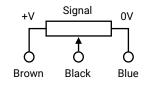
RPPS-HS-24-350





WIRING PIN OUT

	Integral Cable
DC Power In	Brown
Signal Output	Black
Ground	Blue



IMPORTANT ! DO NOT CONNECT THE BLACK WIRE TO POWER SUPPLY THIS WILL CAUSE DAMAGE TO THE SENSOR

ORDERING INFORMATION

Model	Body OD	Measuring Range	Cable Length	Termination
RPPS-HS	-	- 🗆 🗆 🗆	-	- 🗌
	24 24 mm	350 350°	036 36 inch	N Leads
	36 36 mm			

ORDERING EXAMPLE

RPPS-HS-36-350-036-N: 36 mm diameter body, 350° measuring range, 36 inch cable with leads



