



POTEL
Believe in serving

Rotary Smart Angle Sensor



RHSS-38F

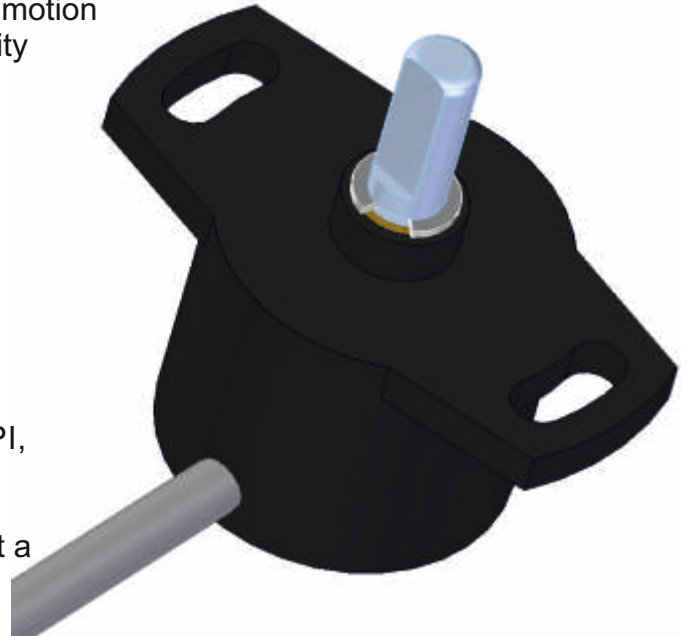
The Rotary Smart Angle Sensor is used to detect the angle or speed of system which corresponds to the rotary motion of the shaft of the sensor. Inbuilt Signal conditioner facility makes it a unique product in the market.

The Output signal corresponds to 0 to 360deg. This full range is programmable based on requirement and based on the need of the

Since the Product is based on Contactless **Magnetic Technology** it has very long life.

For modern microcontrollers RHSS-22 is capable to give output in 0 to 3.3Vdc, 0-10Vdc, 4-20mA, Quadrature, SPI, I2C, PPR and PWM output version is available.

Wide range of Mechanical and electrical variants makes it a versatile product in the industry.



Variants

12 bit resolution

24 or 5Vinput and 0 to 3.3Vdc/5Vdc/10Vdc/4 to 20mA/0 to 20mA Analog Output.

24 or 5 or 3.3Vinput and Redundant (Dual) Output 0 to 5Vdc.

24 or 5 or 3.3Vinput and PWM Output.

24 or 5 or 3.3Vinput and Quadrature Output (AB or ABI)

14 bit resolution

24 or 5 or 3.3Vinput and SPI along with PWM Output.

24 or 5 or 3.3Vinput and I2C along with PWM Output.

Incremental PPR output along (Contactless Knob)(with detent switch available)
With Inbuilt Micro controller(Programmed or unprogrammed) as per requirement.

Sleeve bushing, Servo Mount, Flange Mount and Ball Bearing versions.

Some variants have a facility to be programmed at user end.

All variants with Stopper/ without stopper available.

Connectors or Fly wire available.

IP 69k Protection available.



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POT-TECH Electronics(Bombay) Pvt. Ltd.

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Mechanical



RHSS-38F

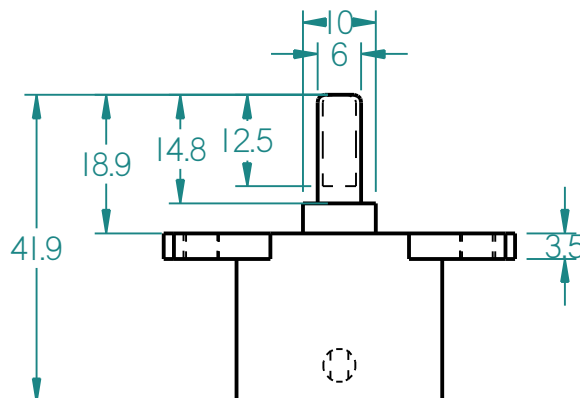
This sensor is encapsulated and tested with ingress protection upto IP 67

For SPI, I2C and incremental Output only
Fly wire version is available.

Shaft Customization is possible.

Tight Motion of shaft is possible.

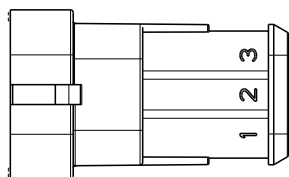
Super seal connector is available
from sensor.



Wiring connection

Option1 Option2

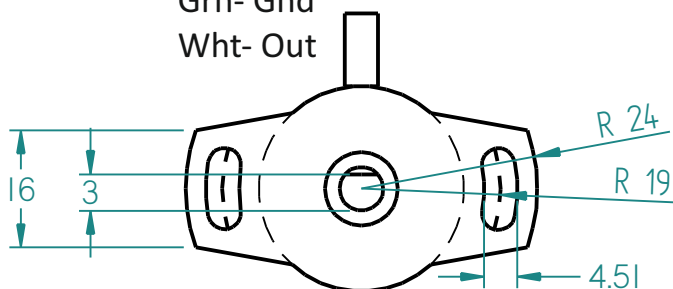
AMP super seal connector



Vinput
GND
Out

Gnd
Vinput
Out

BWN- Vinp
Grn- Gnd
Wht- Out



Electrical characteristics

Paameters	Results
Supply Voltage (Vsupply)	3.3V / 5V / 6 to 35Vdc / 24Vdc (For Vcurve option 5Vdc is must)
Supply Current	20mA
Frequency	200Hz
Resolution	12bit
Output (Voutput)	0 to 3.3Vdc/0 to 5Vdc(ratiomatric)/0 to 10Vdc/0 to 20mA / 4 to 20mA 5-0-5 or values less than it as 1-0-1, 3.3-0-3.3 is available.
Load Resistance	For Voltage Output minimum 10Kohms For Current Output maximum 200 Ohms



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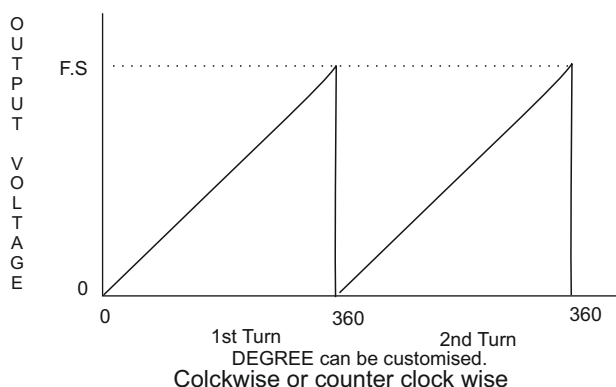
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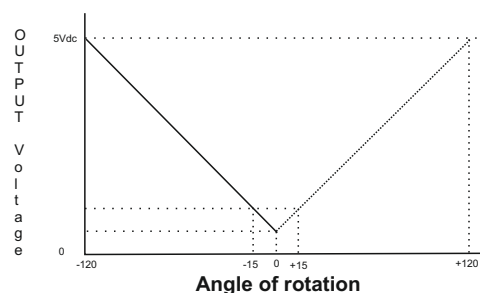


RHSS-38F

Output characteristics



V-curve



- Angle can be customised.
- In centre dead portion can be made as per requirement. End saturation angle can also be achieved based on requirement.

Material

Component	Material
Housing	Engineering plastic
Shaft	Stainless

Environment

Parameter	Value
Operating Temperature	-40 to 75 deg (standard) -40 to 100 deg (on request)
Storage Temperature	-40 to 75 degC
Vibration	20g.

Ordering Information

RHSS-38F - I/p Voltage - Output range or type - angle - direction - shaft dia - XXX Any specific Info

5 - 5Vdc
24 - For 24Vdc
635 - For 6 to 35Vdc

360 for endless CW (default)
else specify CCW

6 - 6mm dia
6.3 - 6.3mm dia
3.15 - 3.15mm dia
3 - 3mm dia

conn - connector
cab - cable

For Example: RHSS-38F-24420-360-CW-6-cab



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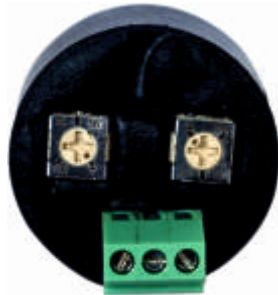
Variants



RHSS-38F



PBT housing With
Without stop. Along
with Gain Offset trim
pots.



Brass Metal housing
version



SERVO MOUNT



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