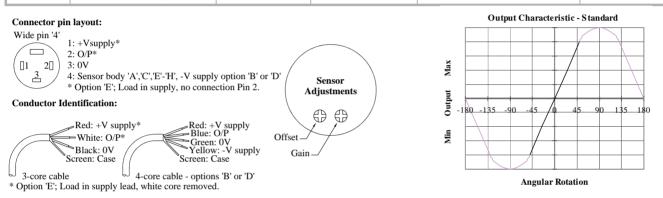
Installation Information RIPS[®] P500 ROTARY SENSOR

Electronics Option	Output Description:	Supply Voltage: (Vs)	Output:	Load resistance: (include leads for 4 to 20mA O/Ps)	Load connected to:
А	Voltage (ratiometric with supply)	5±0.5V	0.5 to 4.5V	2kΩ min	٥V
В	Voltage	±9 to 28V	±5V	2kΩ min	OV
С	Voltage	13 to 28V	0.5 to 9.5V	5kΩ min	OV
D	Voltage	13 to 28V	±10V	5kΩ min	OV
E	2 wire Current Loop	18 to 28V	4 to 20mA	$R_{L} = Vs - 18/20mA$ 300 Ω @ 24V	In supply lead
F	3 wire Current Loop - Sink	13 to 28V	4 to 20mA	R _L = Vs-5/20mA 950Ω @ 24V	Vs
G	Voltage	9 to 28V	0.5 to 4.5V	2kΩ min	OV
н	3 wire Current Loop - Source	13 to 28V	4 to 20mA	300Ω max	OV



Gain and Offset Adjustment: (Where accessible - Typically $\pm 10\%$ Min available)

To adjust the gain or offset use a small potentiometer adjuster or screwdriver 2mm across. Do not apply too much force on the potentiometers. The offset is set at mid span at the mid point, within $\pm 5^{\circ}$, of rotation.

Mechanical Mounting:

Flange mounted or servo mount, with appropriate clips, options. The flange slots are 4.5mm by 30 degrees wide on a 48mm pitch. The sensor should be mounted with minimal axial and radial loading on the shaft for optimum life. It is recommended that the shaft is coupled to the drive using a flexible coupling.

Tests indicate that life in excess of 16 million cycles can be achieved with 1kg side and end load.

Output Characteristic:

The sensor has full rotational freedom and two sectors, 180° apart, over which linear response can be achieved. At the mid point of the calibrated range the output signal will be half full scale deflection, and the flat on the shaft is aligned with the registration mark in the base of the sensor. In the calibrated range the output increases as the shaft is rotated in an anti-clockwise direction viewed from the shaft. The calibrated output is factory set to be between 20 and 160° .

Incorrect Connection Protection levels:-

- A **Not protected** the sensor is **not** protected against either reverse polarity or over-voltage. The risk of damage should be minimal where the supply current is limited to less than 50mA.
- B & D Supply leads diode protected. Output must not be taken outside \pm 12V.
- C & G Supply leads diode protected. Output must not be taken outside 0 to 12V.
- E, F & H Protected against any misconnection within the rated voltage.





For further information please contact:

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