



RIPS[®] P500 ROTARY SENSOR

High-resolution angle feedback for industrial and scientific applications

- **Non-contacting inductive technology to eliminate wear**
- **Angle set to customer's requirement**
- **Compact, durable and reliable**
- **High accuracy and stability**
- **Sealing to IP65/IP67 as required**



As a leading designer and manufacturer of linear, rotary, tilt and intrinsically safe position sensors, Positek[®] has the expertise to supply a sensor to suit a wide variety of applications.

Our P500 RIPS[®] (Rotary Inductive Position Sensor) is an affordable, durable, high-accuracy rotary sensor designed for industrial and scientific feedback applications.

The P500, like all Positek sensors, is supplied with the output calibrated to the angle required by the customer, between 20 and 160 degrees and with full EMC protection built in. The sensor provides a linear output proportional with angle of rotation. There is a machined registration mark to identify the calibrated mid point.

It is particularly suitable for OEMs seeking good sensor performance for arduous applications such as industrial machinery where cost is important.

Overall performance, repeatability and stability are outstanding over a wide temperature range. The P500 has a rugged stainless steel body and shaft for long service life and environmental resistance. The sensor is easy to install with flange or servo mounting options, it also offers a wide range of electrical options. Environmental sealing is to IP65 or IP67 depending on selected cable or connector options.

SPECIFICATION

DIMENSIONS

Body diameter	35 mm
Body Length (to seal face)	44 mm standard, 50 mm buffered
Shaft	15mm Ø 6mm

For full mechanical details see drawing P500-11

Independent linearity

< ± 0.25% for 100 degrees @ 20°C

Temperature coefficients

< ± 0.01%/°C Gain &

< ± 0.01%FS/°C Offset

Typical overall accuracy

< ± 0.5% / FSO

Frequency response

> 10 KHz (-3dB)

> 300 Hz (-3dB) 2 wire 4 to 20 mA

Resolution

Infinite

Noise

< 0.02% FSO

Torque

<20 mNm Static

Environmental Temperature Limits

Operating -40 to +125°C standard

-20 to +85°C buffered

Storage -40 to +125°C

Sealing

IP65/IP67 depending on connector /

cable option

EN 61000-6-2, EN 61000-6-3

IEC 68-2-6: 10g

IEC 68-2-29: 40 g

MTBF 350,000 hrs 40°C Gf

Drawing List

P500-11 Sensor Outline

Drawings, in AutoCAD[®] dwg or dxf format, available on request.

Do you need a position sensor made to order to suit a particular installation requirement or specification? We'll be happy to modify any of our designs to suit your needs - please contact us with your requirements.



For further information please contact:

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