PCB MAGNETIC SENSOR
PSEUDO - ABSOLUTE

The perfect innovation for a better production

MEASURE SPEED & POSITION
WITH NTN-SNR VERSATILE ASIC

CUSTOM RESOLUTION
• Incremental or Pseudo-Absolute
• Polar adaptation and interpolation

REFERENCE PULSE
• Additional magnetic information
• Serve-drive control

RELIABLE
• AECQ100 qualification (automotive)

CHOOSE
YOUR PRODUCT INTEGRATION

UNPACKAGED
PMS P-ABL
• Specific to your system
• Through shaft

TUBE TYPE
TTS P-ABL
• Tight access
• Easy retrofitting on existing systems
• Easy maintenance

BALL BEARING
BBS P-ABL
• Optimal congestion
• Thought shaft
• Closer to the movement

FOR MASS PRODUCTION
### Specification

- Fully integrated design features on chip Hall sensors to generate digital high resolution and index pulse signals
- TSSOP 20 package (7mm x 6mm x 1mm) -40°C to +125°C operating range
- Synchronized on-board index pulse
- Automatic Gain Control for increased AG range
- On board Auto diagnostic
- Reduced consumption mode selectable
- Current limited Open Drain and Push Pull outputs
- No external Components
- ESD protected (2kV – HBM 150pF – 1.5k)
- True Zero speed Operation
- Uses polymer bonded multi pole magnet as a rotary or linear magnet
- Dual track encoder with optimized magnetization for increased accuracy

### Configuration

<table>
<thead>
<tr>
<th>PMS / TYPE</th>
<th>POLE LENGTH</th>
<th>INTERPOLATION FACTOR</th>
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</thead>
<tbody>
<tr>
<td>PMS / INC, P-ABL</td>
<td>1.13 to 5.92 mm</td>
<td>x1, x2, x4, x5, x8, x10, x16, x20, x32, x40</td>
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### Diagram

A schematic diagram illustrates the signal processing and channel amplifier functionalities, including Hall Array 1 & Frontend Amplifier, Signal Processing, ADC & DSP, A/B Quadrature Incremental Interface & Index, OTP register, Analog Output, and various signal processing and channel operations. Diagrams also depict axial, radial, and linear axes.