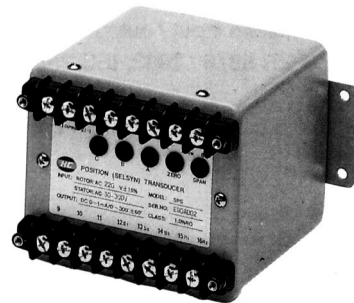
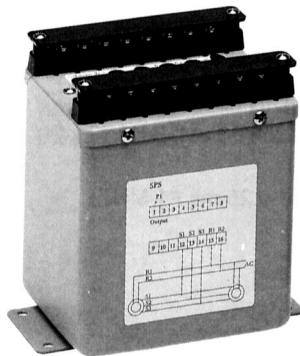


# Position Transducer ( synchro conversion )

## Model SPS

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- ⊙ Standard output with 0 to 1 mAdc;  
Option on request
- ⊙ AC 1800V input / output / isolation meets  
power series requirement
- ⊙ Meets IEEE SWC test
- ⊙ Dynamic zero starting angle no resetting of  
mechanics after required

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## Specification

<b>1. Accuracy</b>	1% RO / $23 \pm 3^{\circ}\text{C}$
<b>2. Input of stator</b>	
Effective range	60 / 120 / 240 $\pm 40\%$ order on request
Angle of conversion	Standard $330^{\circ} \pm 30^{\circ}$
Burden	< 1VA of maximum range
Frequency	55 – 65Hz
Protection	Full protection for SURGE, EMI & RFI
<b>3. Input of rotor</b>	
Effective range	90 – 140 / 180 – 280V order on request
Burden	< 3.5VA
<b>4. Output ( isolated with input )</b>	
Range	Standard : DC 0 – 1 mA vs required rotating angle Option : DC 0 – 5 / 0 – 10 / 0 – 20 / 4 – 20mA DC 0 – 1 / 0 – 5 / 1 – 5 / 0 – 10 / 2 – 10V
Driveability	Maximum 10Kohm for 0 to 1 mA output > 10V for current output mode > 10mA for voltage output mode
Output impedance	> 30 Mega ohm
Response time	< 600 ms from 0 to 99% RO at operating
Ripple	< 0.5% P-P RO
Long term stability	< 1% RO per year
Temperature stability	< 0.1% per degree C, from 0 to 55°C
Adjustment	Span $\pm 5\%$ / 10% on request, zero shifter / 0 – 360°, fine / $\pm 15^{\circ}$
Protection	No damage ... open or short; full protection of SURGE, EMI, RFI
Magnetic effect	< 0.04% at center 400 A-T / M

**5.Operation condition**

Environment	
Temperature	-5 to 60°C
Humidity	20 to 99% RH non condensed
Elevation	Under 3000 meters
Magnetic field	500 A-T / M
Wave form	Sinusoidal wave form only
Dielectric strength	4KV AC rms 1 minute between input / output / power / case IEC 688 Impulse test ANSI C37.90/1989, IEEE 587/1983, IEC 255-3, 6KV ( 1.2 x 50 us ), 3KA ( 8 x 20 us ) .... current only
Surge test ( ring wave )	IEEE 587/1983 ( 3KV - 0.5us / 100KHz ) IEC 255-3 ( 2.5KV - 025ms / 1MHz )

**Terminal Connection**

