



FEATURES

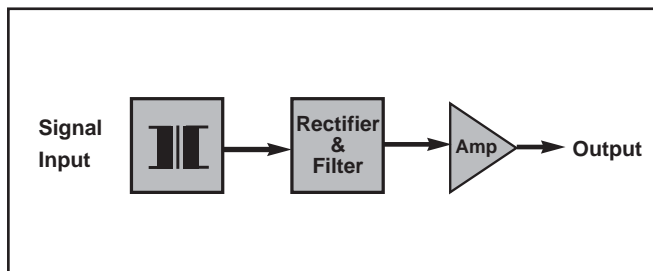
- Accuracy : $\pm 0.25\%$ RO.
- Aux. power source is not required
- High impulse & surge protection (5KV)
- The case can be mounted on a 35mm rail which complies with DIN 46277



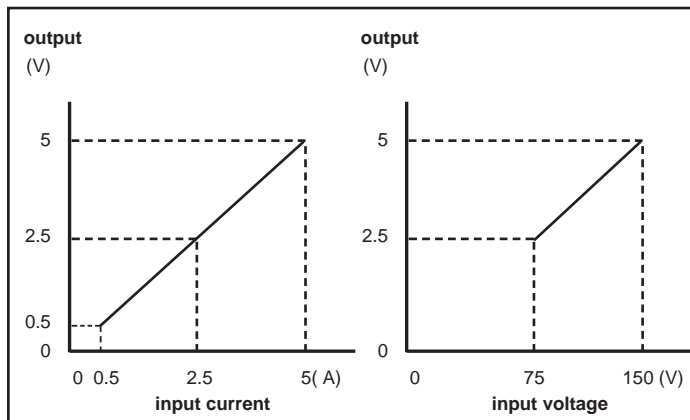
DESCRIPTION

Model : S3-ASD-1 1 Φ CURRENT input
 S3-VSD-1 1 Φ VOLTAGE input

These transducer converting a sinusoidal alternating current or voltage into a dc output, proportional to the RMS value of input. These units are average sensing, but RMS calibrated for a sine wave with less than 1% distortion. The input signal is converted to a dc voltage which then feeds to a signal amplifier and a dc output produced.



INPUT - OUTPUT CURVE



SPECIFICATION

● **Input**

Model	Input Range	Measuring Range	Input Burden	Input Burden
S3-ASD	0 ~ 1A	0.1 ~ 1A	$\leq 1.5VA$	50HZ ± 2 HZ or 60HZ ± 2 HZ
	0 ~ 5A	0.5 ~ 5A		
S3-VSD	0 ~ 150V	75V ~ 150V	$\leq 1.5VA$	60HZ ± 2 HZ
	0 ~ 300V	150V ~ 300V		

Max. Input Over Capability :(Current input) 3 \times rated continuous
 10 \times rated 10 secs.
 50 \times rated 1 sec.
 (Voltage input) 2 \times rated continuous

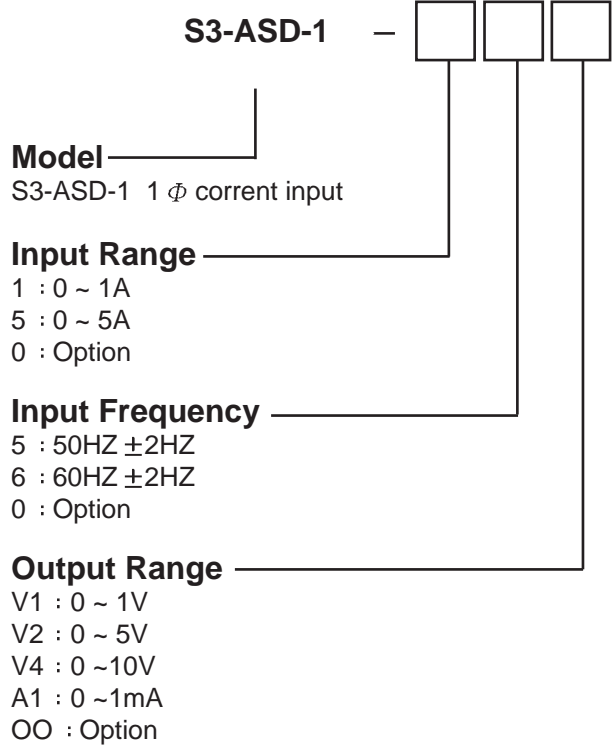
● **Output**

DC Output Range	Load Resistance	Output Resistance	Output Ripple	Response Time
0 ~ 1V	$\geq 2 K\Omega$	$\leq 4 \Omega$	$\leq 1\%$ RO. (peak)	$\leq 800mS$. 0 ~ 99%
0 ~ 5V	$\geq 10 K\Omega$	$\leq 20 \Omega$		
1 ~ 5V	$\geq 20 K\Omega$	$\leq 40 \Omega$		
0 ~ 10V	0 ~ 5K Ω	$\geq 5M \Omega$		

- Accuracy $\pm 0.25\%$ Rated of Output
- Measuring range (S3-ASD) 10% ~ 100%
(S3-VSD) 50% ~ 100%
- Output load effect current output $\leq 0.1\%$ RO.
voltage output $\leq 0.05\%$ RO.
- Magnetic field strength $\leq 0.2\%$ RO., 400A/M
- Span adjustment range $\geq 5\%$ RO.
- Zero adjustment range $\geq 1\%$ RO.
- Operating temperature range 0~60°C
- Storage temperature range -10~70°C
- Temperature coefficient $\leq 200PPM$ from 0 to 60°C
- Max. relative humidity 95%
- Isolation Input/output/case
- Insulation resistance $\geq 100M \Omega$, DC 500V
- Dielectric withstand voltage Between input/output/case
(IEC 414,688,ANSI C37) AC 2.6KV, 60HZ, 1Min
- Impulse withstand test 5KV, 1.2 x 50 μS
(IEC 255-4, ANSI C37 90a) Common mode & differential mode
- Performance Designed to comply with IEC688
- Safety requirement IEC414, BS5458

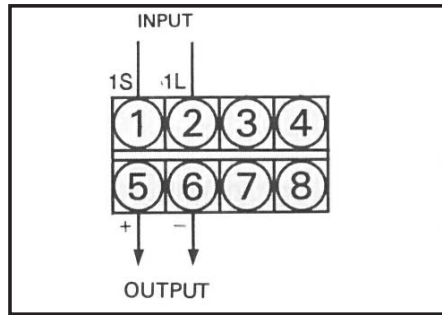


ORDERING INFORMATION

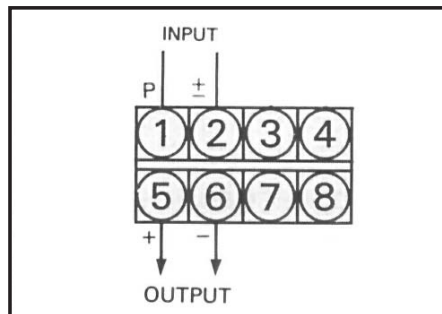


CONNECTION DIAGRAM

S3-ASD-1



S3-VSD-1



THE OUTSIDE DIMENSION (UNIT:mm)

● S3-ASD-1, S3-VSD-1

