HANKOOK SENSORS

SVH-D4

AC/DC/PULSE to measurement,

VOLTAGE SENSOR

FEATURES

- Small Sized D4 Package with Multi-Functional Mounts
- For both DC/AC Measurements
- DC ~ AC 50kHz

APPLICATIONS

⊙ Voltage Measurements of Non-sinusoidal Waves in Power Transformers

⊙ DC/Ripple Measurements of Rectifiers and Battery Chargers/Dischargers

⊙ Measurements of Prevailing Voltage with Frequent Frequency/Phase Changes

⊙ Precision Voltage Measurements of Prevailing Voltages

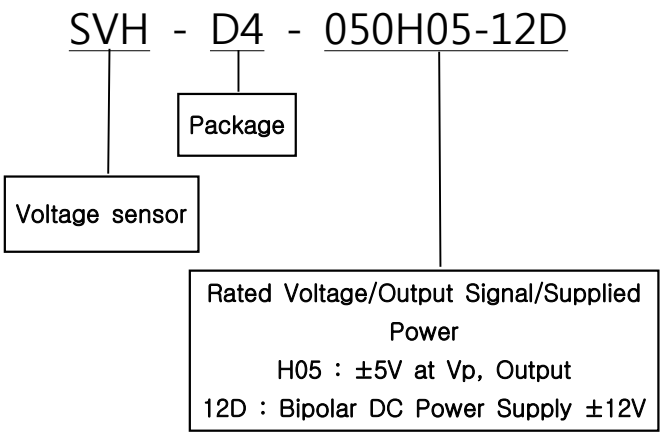
DESCRIPTION

SVH-D4 series sensors are voltage sensors for measuring voltages with built-in PV-series PCB mounted voltage sensors. SVH-D4 series also benefit from various mounts of D4 package.

SVH-D4 series sensors have very high linearity for both DC and AC voltage..

Rated voltage of SVH-D4 series sensors may be chosen between 5V and 1,000V. According to the above configured rated voltage, measured voltage and signal voltage are insulated with impedance of 20~100MΩ.

MODEL & D4



▲ D4 Package

Dimension 30 x 100 x 49(H)mm

ELECTRICAL CHARACTERISTICS : V_S = ±12V, T_A 25℃

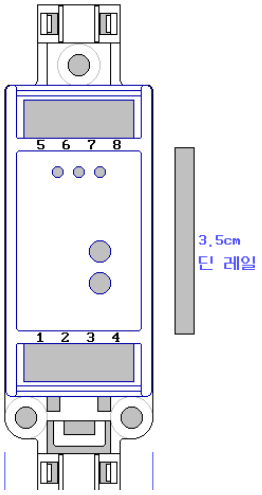
PARAMETER	SIMBOL	TEST CONDITIONS	025H04 025H05	050H04 050H05	075H04 075H05	UNIT
Primary						
Nominal voltage	V_P		25	50	75	V
Voltage, measuring range	V_{PM}		50	100	150	V_{P-P}
Output						
Reference output (A)	V_{REF}		0 (... ±30 Max.)			mV
Reference output (B)	I_{REF}					mA
Nominal output (A)	V_O	at V_P	H04 : ±4 (H05 : ±5)			V
Nominal output (B)	I_O					mA
Max, output (A)	V_{OM}		±10.5			V
Max, output (B)	I_{OM}					mA
Power supply						
Supply Voltage	V_C		±12...±15			V
Current consumption	I_C	Max. 50mA	10 + I_O			mA
Offset drift						
Vs Temperature	T_{DR}	at V_P=0V	< 0.07			%/℃
Vs Power supply	T_{DP}	±09V ... ±18V	< 0.05			%/V
Gain drift						
Vs Temperature	TDV_O	at V_P	< 0.1			%/℃
Vs Power supply	TDV_P	±09V ... ±18V	< 0.1			%/V
Accuracy						
Accuracy		at 0V .. V_P+offset	1.0			%
Linearity error		at 0V .. V_P	0.5			%
Response time 1 (sensor part)	trs		7			μs
Response time 2 (converter part)	trc					ms
Frequency bandwidth (-3dB)	BW	Sin wave	20 (50 Max.)			kHz
Temperature						
Operating temperature	T_A		-20~80			℃
Storage temperature	T_S		-45~85			℃
Isolation						
AC isolation test			>3.0			kV
DC isolation test			>1,000			MΩ
Notes						
Mass			35			g
Case material			NP66			
Standards						

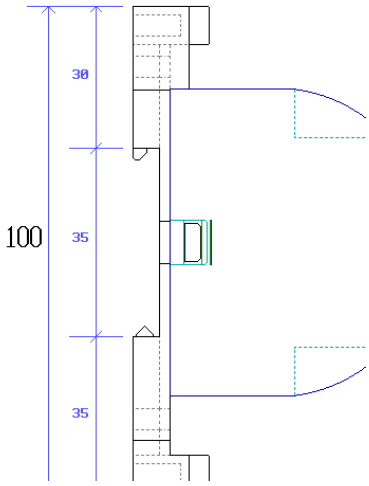
※ The specification above corresponds to the products listed below.

SVH-D4-100H04-12D ... SVH-D4-400H04-12D

SVH-D4-100H05-12D ... SVH-D4-400H05-12D

DIMENSIONS (in mm)





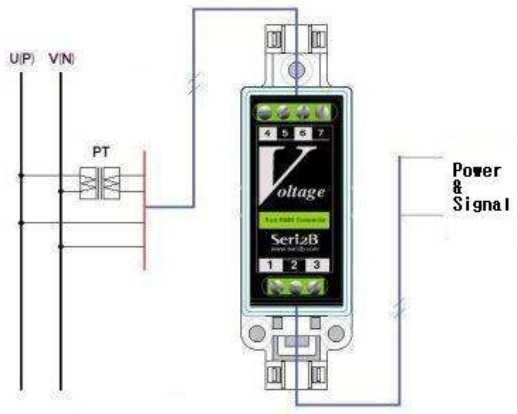
▼ **PIN - COMPOSITION**

1 : +12V IN	**5 : +Vp IN**
2 : -12V IN	
3 : SIGNAL OUT	**6 : N.C.**
4 : 0V IN/OUT	**7 : N.C.**
	8 : -Vp IN

※ Note

Make sure to connect voltage wire to be measured to pin number 5 and 8.

▼ **Wiring Diagram**



SAFETY

- Maximum allowed voltage to be measured is 3 times the rated voltage. Exceeding this voltage may cause disconnection of coils and/or fire.
- Be sure to supply rated voltage for supplying power. Using voltage out of the rated voltage range may cause malfunctions.
- This product is not perfectly waterproof. Therefore, when using this product in outdoors, be cautious for having this product to be exposed to excessive humidity or moisture.