3-Phase 3-Wire AC Voltage Sensor CYVS13-xnSK1

The **CYVS13-xnSK1** AC Voltage Sensor/Transducer works according electro-magnetic induction and is designed for applications to measurement and monitoring of 3-Phase 3-Wire AC voltage. The output signals (DC voltage or current) of this transducer are proportional to the average effective value (RMS) of input AC voltages. They are suitable for general applications such as fixed frequency voltage supplies and sinusoid voltages etc.

Specifications

Rated input voltage range	50V, 75V, 100V, 200V, 250V, 300V, 380V, 400V, 500V
Output signal	0-5VDC, 0-20 mA, 4-20 mA, 0-10V DC
Output load	≥2kΩ for voltage output, ≤250Ω for current output
Power supply	110V DC/AC, +220V DC/AC
Measuring accuracy	0.5%
Isolation	between input, output and power supply
Load resistance	≥2kΩ for voltage output, ≤250Ω for current output
Isolation withstanding voltage	2.5 kV DC, 1min, leakage current 1mA
Operating temperature	-10°C ~ +60°C
Storage temperature	-25°C ~ + 70°C
Relative humidity	10% ~ 90%
Response time	≤250ms
Overload capacity	2 times
Quiescent power consumption	400mW – 500mW
Mounting	Din rail
Case style	SK1 without aperture

Definition of Part Number:

CYVS13	-	x	n	SK1	-	0.5	-	m
(1)		(2)	(3)	(4)		(5)		(6)

(1)	(2)	(3)	(4)	(5)	(6)
Series name	Output signal	Power supply	Case style	Accuracy class	Input voltage range (m)
CYVS13	**x=3:** 0-5V DC **x=4:** 0-20mA DC **x=5:** 4-20mA DC **x=8:** 0-10V DC	n**=8:** 110V DC/AC n**=9:** 220V DC/AC	SK1	0.5%	50V, 75V, 100V, 200V, 250V, 300V, 380V, 400V, 500V

Typical example: CYVS13-58SK1-0.5-380V, three phase AC voltage sensor with
Output signal: 4-20mA DC
Power supply: 110V DC/AC
Rated input voltage: 380V AC/RMS

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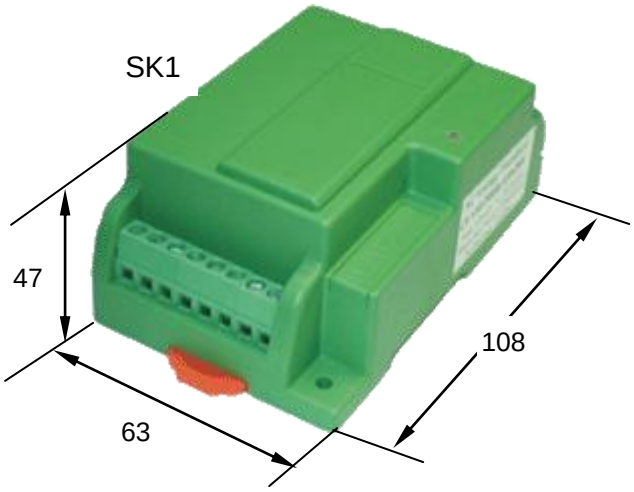
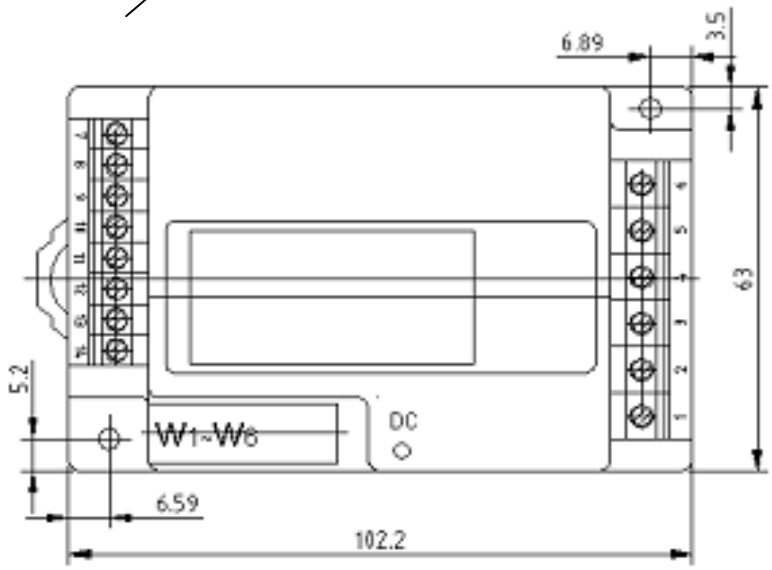
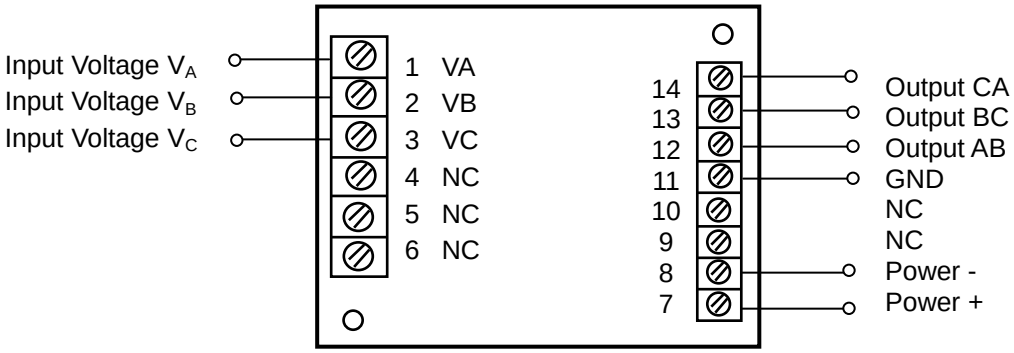
DIMENSIONS (mm)



Dimensions:
47mm x 108mm x 63mm



CONEECTIONS



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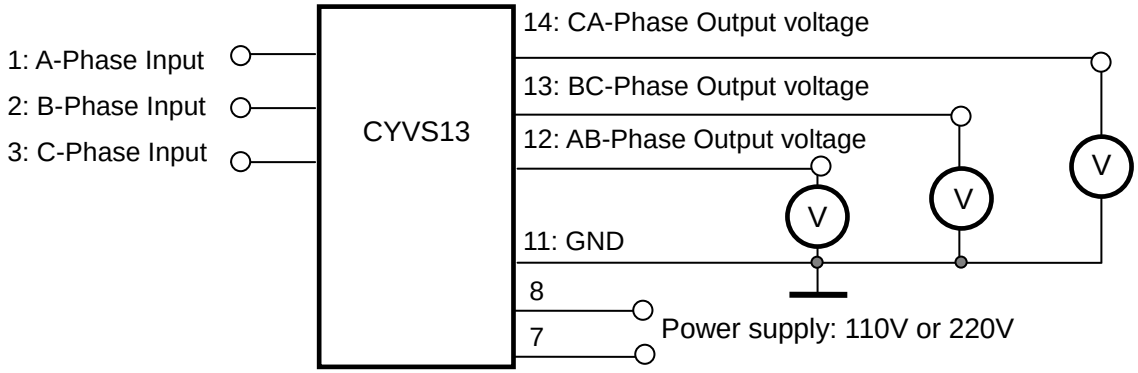
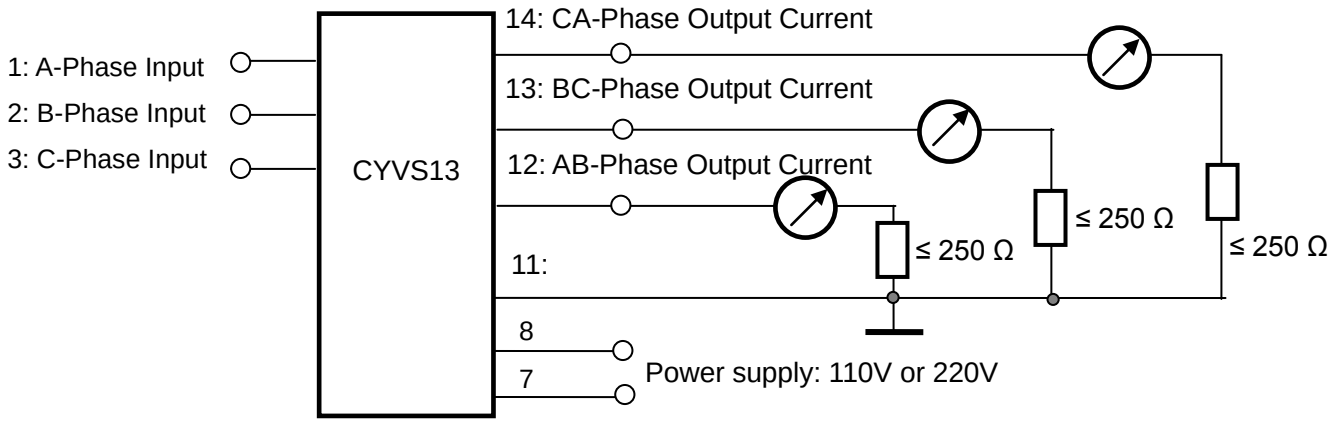
Wiring of Terminals for voltage output:



7, 8: Power Supply 11: GND 14, 13, 12: Voltage Output

Wiring of Terminals for Current Output:



7, 8: Power Supply 11: GND 14, 13, 12: Current Output

Application:

- Harmonic voltages
- Chopped waveform drivers
- Quickly varying voltage supplies
- Phase fired controlled devices

Notice:

1. There is no polarity requirement for the input current connection.
2. The output signal and the power source are common grounded at terminal 11.
3. The output at terminal 12 corresponds to the line voltage V_{AB}, the output at terminal 13 is line voltage V_{BC}, and the output at terminal 14 presents line voltage V_{CA}

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