



Single-phase AC Voltage Sensor CYVS11-xnD1

The **CYVS11-xnD1 Series** Loop-Powered AC Voltage Sensor/Transducer is designed for applications to measurement and monitoring of single phase AC voltages. The output signals (DC voltage and current) of these transducers are proportional to the average effective value (RMS) of input AC voltages. They are suitable for general applications such as fixed frequency voltage supplies etc.

Specifications

Measuring voltage range	0 - 500mV AC ~ 0 - 500V AC, selectable
Output signal	0-5V, 0-10V, 1-5V, 0-20mA, 4-20mA etc.
Power supply	+5V DC, +12V DC, +15V DC, +24V DC
Measuring accuracy	0.5%
Isolation	between input, output and power supply
Isolation resistance	≥20 MΩ
Isolation withstanding voltage	2.5 kV DC, 1min, leakage current 1mA
Operating temperature	-10°C ~ +70°C
Storage temperature	-45°C ~ + 85°C
Relative humidity	10% ~ 90%
Response time	≤400ms
Overload capacity	2 times
Quiescent power consumption	180mW ~ 250mW
Mounting	Din rail

Definition of Part number:

CYVS11	-	x	n	D1	-	0.5	-	m
(1)		(2)	(3)	(4)		(5)		(6)

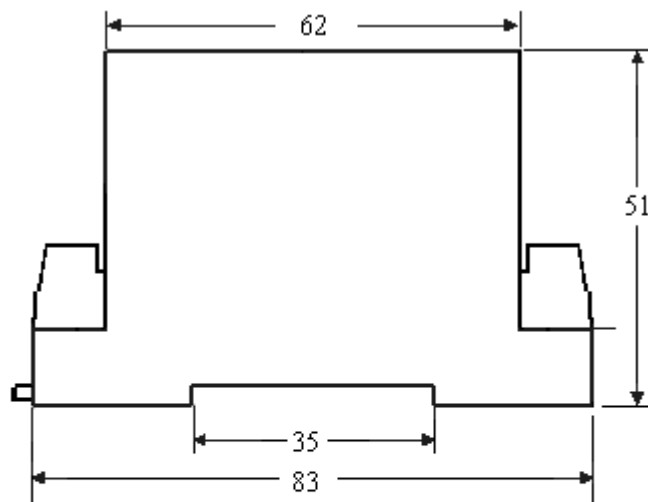
(1)	(2)	(3)	(4)	(5)	(6)
Series name	Output signal	Power supply	Case style	Accuracy class	Input voltage range (m)
CYVS11	x=3: 0-5V DC x=4: 0-20mA x=5: 4-20mA x=8: 0-10V DC	n=1: +5V DC n=2: +12V DC n=3: +15V DC n=4: +24V DC	D1	0.5%	Measuring voltage range: 0-500mV AC ~ 0-500V AC m=500mV ~ 500V

Typical Example: CYVS11-34D1-0.5-220V Single Phase AC Voltage sensor

Output signal: 0-5V DC
 Power supply: +24V DC
 Input voltage: 220V AC/RMS

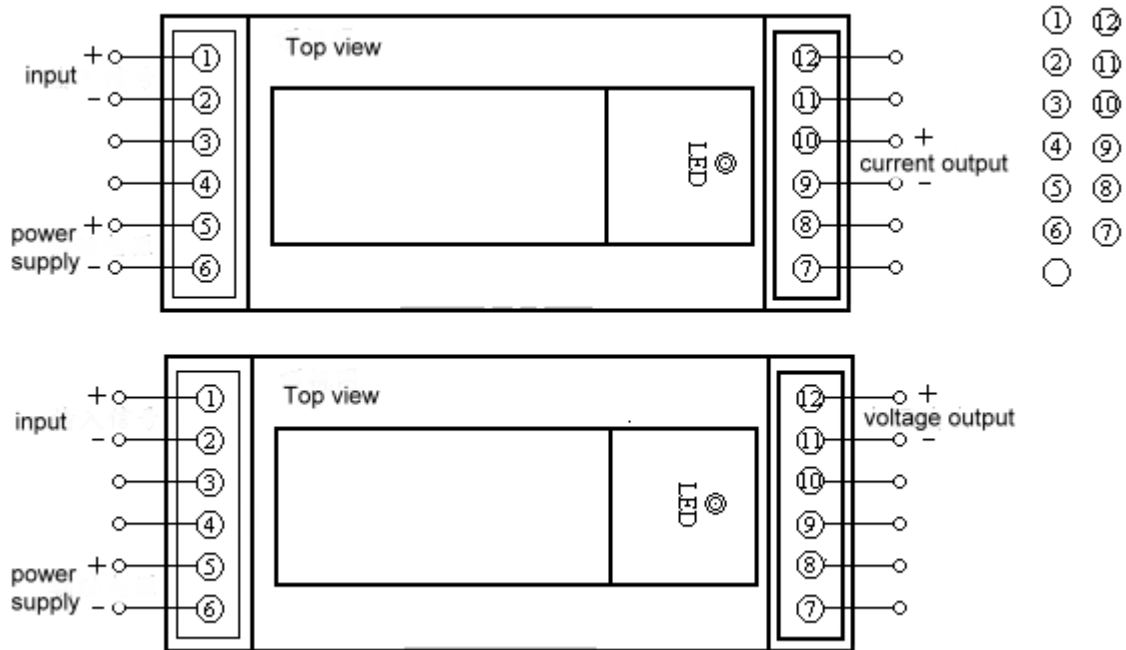


Case Style: D1

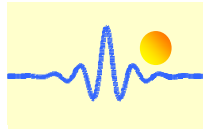




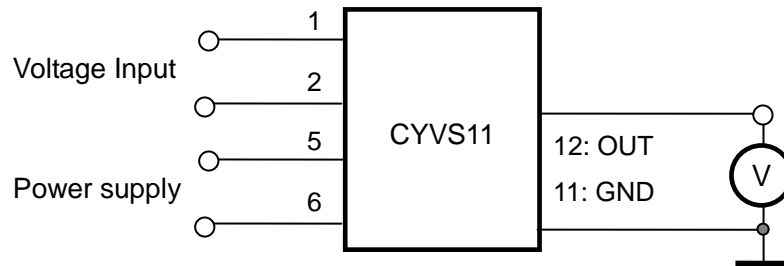
Connection



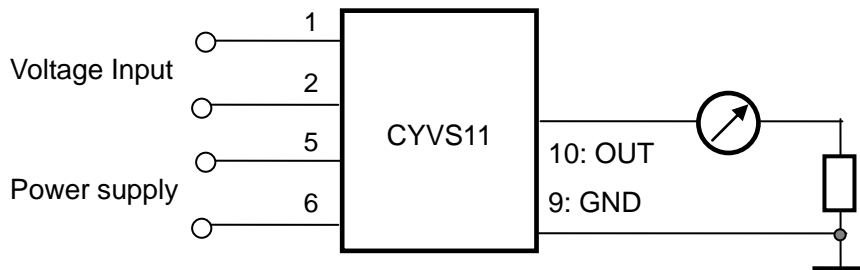
Pin	Symbol	Function
1	Vin+	Input voltage +
2	Vin-	Input voltage -
3	NC	Not connected
4	NC	Not connected
5	Vcc	Power supply +
6	GND	Power supply -
7	NC	Not connected
8	NC	Not connected
9	Io-	Current output -
10	Io+	Current output +
11	Vo-	Voltage output -
12	Vo+	Voltage output +



Wiring of Terminals for voltage output:



Wiring of Terminals for Current Output:



Application:

- Monitor for over/under voltage
- Power monitoring
- Multi-point instrumentation needs
- Sense phase loss

Notice:

1. Selection of output signal: Please select power supply >12V for 0-10V output.
2. The output signal and the power source must be earthed in common. Please keep right connection.