

DC Voltage Sensor CYVT02-xnS3

The **CYVT02-xnS3** DC voltage sensor/transducer works according Electromagnetic Induction and is designed for applications to measurement and monitoring of DC voltage. The output signal (DC voltage or current) of this transducer is proportional to the input DC voltage. They are suitable for measurements and long time monitoring of DC voltages and can applied to power supply management, DC motor drivers, battery chargers and systems etc.

Specifications

Rated input voltage	10mV, 50mV, 75mV, 75V, 100V, 200V, 500V, 1000V
Output signal	0-5VDC, 0-20 mA, 4-20 mA, 1-5V DC, 0-10V DC, frequency OC
Power supply	110V, 220V DC/AC
Measuring accuracy	0.2%, 0.5%
Isolation (three-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 ~ +70°C
Storage temperature	-45°C ~ + 85°C
Relative humidity	10% ~ 90%
Response time	≤400ms
Overload capacity	2 times
Quiescent power consumption	200mW – 300mW
Mounting	Din rail
Case style	S3 without aperture

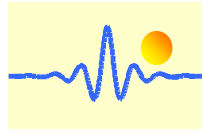
Definition of Part number:

CYVT02	-	x	n	S3	-	0.2	/	m
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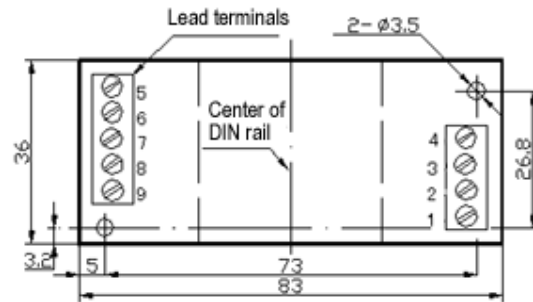
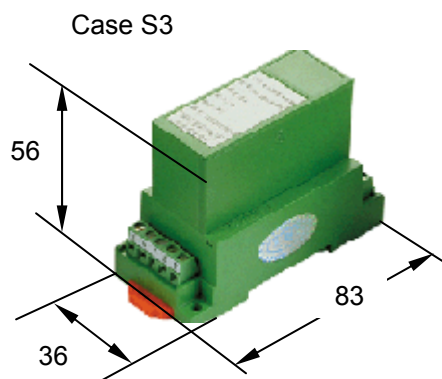
(1) (2) (3) (4) (5) (6)

(1)	(2)	(3)	(4)	(5)	(6)
Series name	Output signal	Power supply	Case style	Accuracy class	Rated Input voltage (m)
CYVT02	x=3: 0-5V DC x=4: 0-20mA DC x=5: 4-20mA DC x=6: 1-5V DC x=8: 0-10V DC	n=8: 110V DC/AC n=9: 220V DC/AC	S3	0.2% 0.5%	10mV, 50mV, 75mV, 75V, 100V, 200V, 500V, 1000V

Typical Sample: CYVT02-38S3-0.2/100V, DC Voltage sensor with
 Output signal: 0-5V DC
 Power supply: 110V DC/AC
 Rated input voltage: 0-100V DC



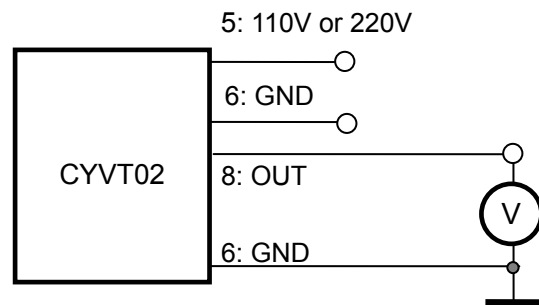
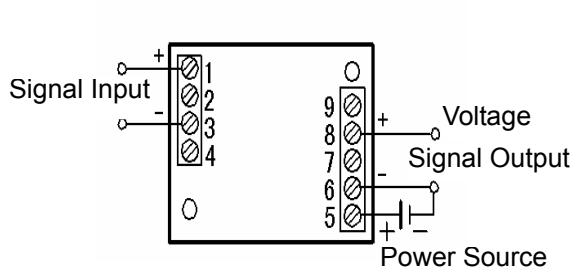
DIMENSIONS (mm)



Dimensions: 56mm x 83mm x 36mm

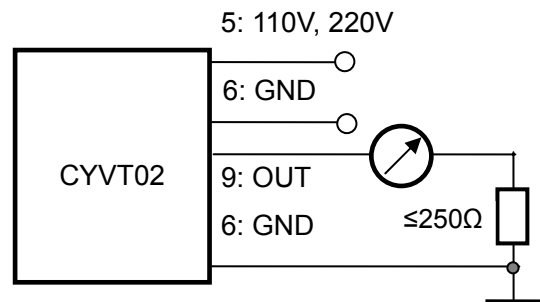
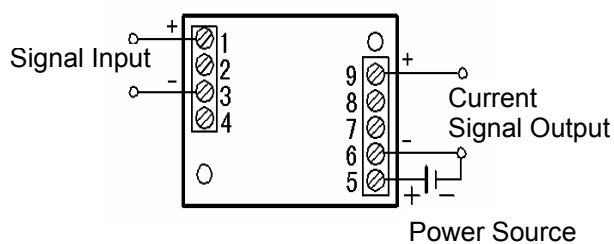
CONNECTIONS

Wiring of Terminals for voltage output:

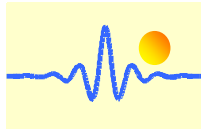


5: Power Supply 6: GND 8: Voltage output

Wiring of Terminals for Current Output:



5: Power Supply 6: GND 9: Current output



Applications:

- Mobile applications.
- Power supply over /under sensing
- Battery chargers and systems
- Power sensing

Notice:

- If the input signal is bi-directional DC or pulse DC, please give a remark in your order.
- The output and the power supply must be common grounded at terminal 6.