

DC Voltage Sensor/Transducer

The **CYVZ01/02 Series**, DC Voltage Sensors/Transducers are designed for measurements of DC voltages. The output signals are proportional to DC input voltages. These Transducers are focused on easy solutions for measurements and long time monitoring of DC voltages in instrumentation and control systems.

Specifications

Series	Operating Principle	Isolation Voltage	Response Time Range 0 ~90% FS	Overload Capacity	Quiescent Power Consumption (mW)		Mounting
					Vz, Vd, Vg, Iz Output	Iy Output	
CYVZ01	Linear Photoelectric Isolation *3 Isolation	≤2500 VDC	≤400mS	20 Times 10/ sec	180	300	Surface or Din rail
CYVZ02	Electromagnetic Induction				50	120	

* Three Isolation: Isolations among input of transducer, output of transducer and power source.

Part Numbers

Series	Output	Power Source	Window Opening (mm)	Case Style	Accuracy	Rated Input (RMS)
CYVZ01	3: 0~5V DC (Vz) 4: 0~20mA (Iz) 5: 4~20mA (Iy)*	2: +12V 3: +15V 4: +24V	M: None	S1 S2	0.2%	10mV, 50mV, 75mV, 75V, 100V, 200V, 500V, 1000V
CYVZ-02	8: 0~10V DC (Vd) F: OC frequency signal output			S1 S2 H2		

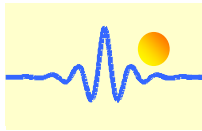
* Loop resistance from 0 to 250Ω. Contact factory for loop resistance above 250 Ω

Part Number Example: **CYVZ02-52MS1-0.2/0-75mV**

Description: One-way DC Transducer, Input Voltage: 0-75mV, Output: 4-20mA, Power Source: +12V, Window opening: None, Accuracy: 0.2%, Case Style: S1

Application:

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

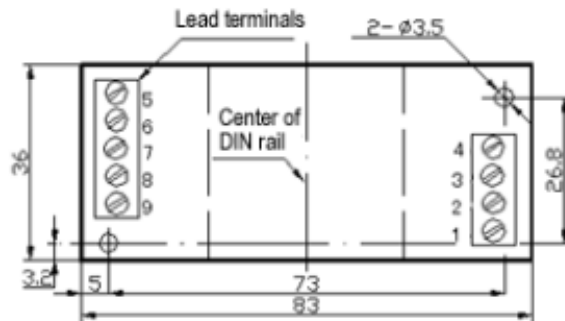


Case style

Case Style S1 without Aperture



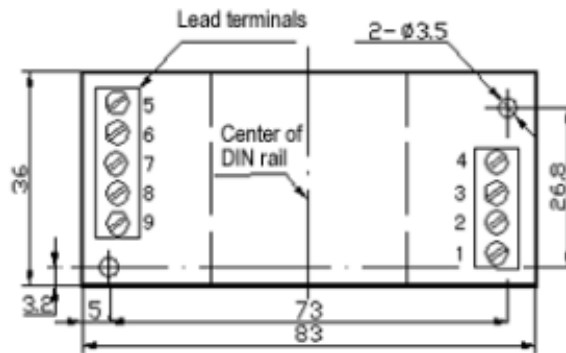
Installation



Case Style S2 without Aperture



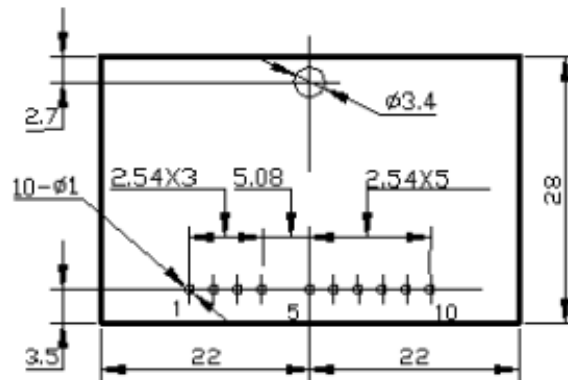
Installation

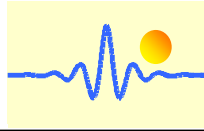


Case Style H2



Installation





Connection Diagram

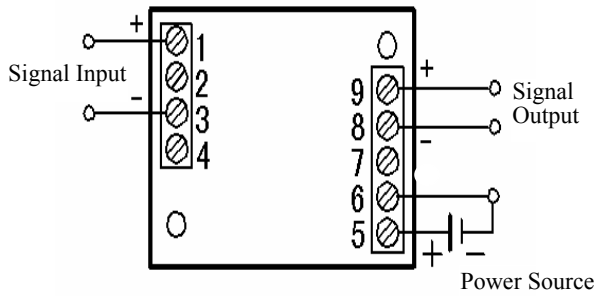


Fig. 1 CYVZ01
Case S

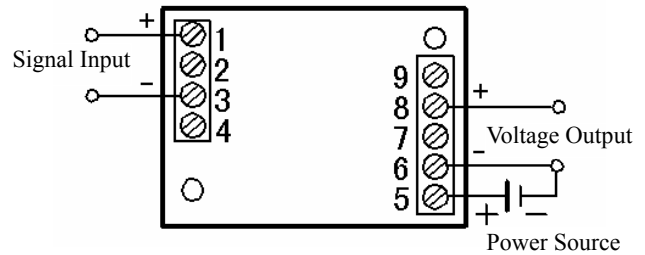


Fig. 2 CYVZ02
Voltage Output, Case S

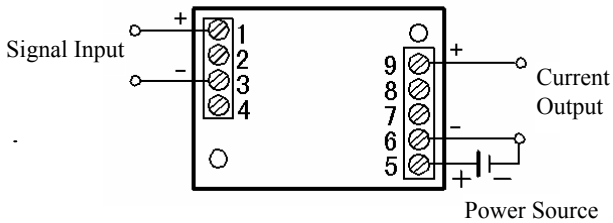


Fig. 3 CYVZ02
Current Output, Case S,

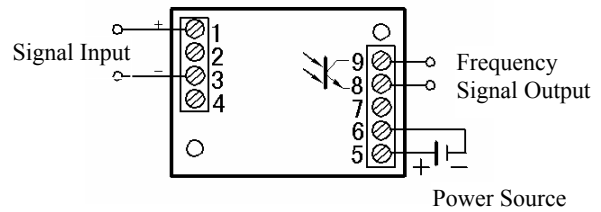


Fig. 4 CYVZ01, CYVZ02
Frequency Output Case

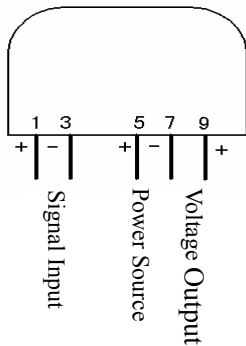


Fig. 5 CYVZ02
Voltage Output, Case H,

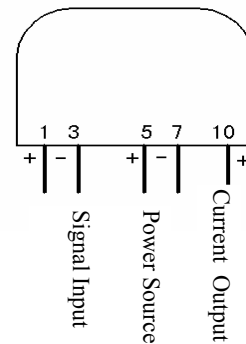


Fig. 6 CYVZ02
Current Output, Case H,

Notice:

1. In case the input signal is bi-directional DC or pulse DC, please mention in your order.
2. Since operating principle of CYVZ01 is three isolations, which output signal and power source may not be earthed in common (while that of other series must be earthed in common).