Frequency Transducer

The **CYF01 Series**, Frequency Sensors/Transducers are designed for frequency measurements of AC voltages. The output signals are proportional to the frequency of input voltages. These Transducers are especially suitable for multi-frequency power 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	
CYF01	Photoelectric Induction	⩽2500 V DC	⩽400mS	2 Times 10/sec	200	250	Din rail

Case Style (see document of case styles and mounting diagrams)

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S2

Part Number

Series	Output	Power Source	Input Wave From	Case Style	Accuracy (%)	Rated Input (RMS)	
						Frequency	Voltage
CYF01	**3:**0~5VDC (Vz) **4:** 0~20mA (Iz) **5:** 4~20mA (Iy)*	**2:** 12V **3:** 15V **4:** 24V	**R:** Arbitrary Wave Pass Zero. **F:** Square Wave. **Z:** Sine Curve Wave. **O:**OC frequency signal **T:** TTL level	S2	0.5	55Hz, 100Hz, 1KHz, 2KHz, 5KHz.	50V, 110V, 250V, 400V, 500V.

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

Part Number Example: CYF01-32FS2-0.5/0~55Hz (250V)

Description: Frequency Transducer, Input: 0~55Hz Square Wave Signal (250V), Output: 0~5V, Power Source: +12V, Accuracy: 0.5, Case Style: S2

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Connection Diagram (see document of case styles and mounting diagrams)

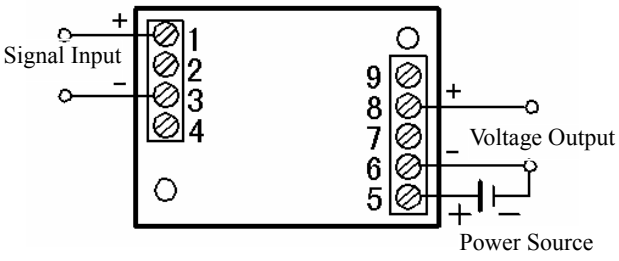

Fig. 1 CYF01
Voltage Output, Case S,

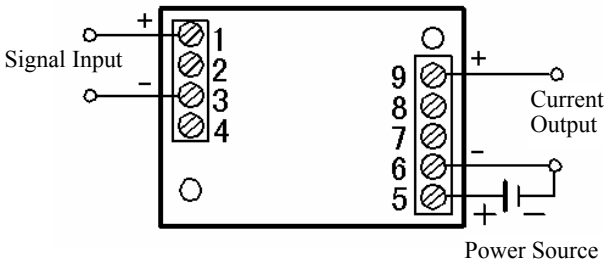

Fig. 2 CYF01
Current Output, Case S,

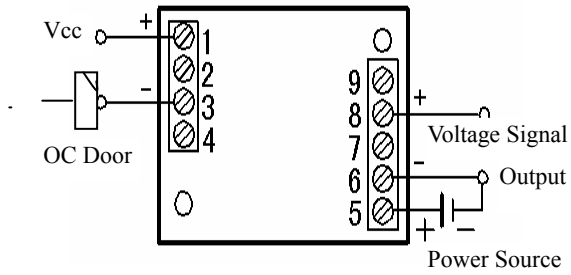

Fig. 3 CYF01
OC Frequency Input, Voltage Output

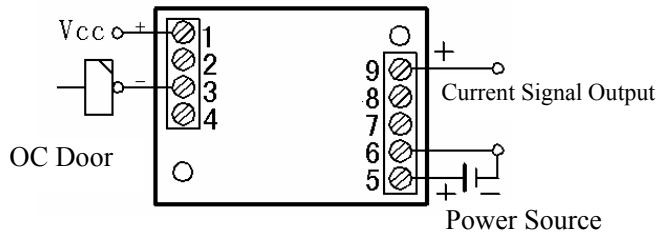

Fig. 4 CYF01
OC Frequency Input, Current Output

Typical Application:

- Power quality monitoring
- Applications monitor generator sets
- Multi-frequency control and monitoring
- Inverter drives and systems

Notice:

1. Response of frequency signal must not be lower than 20% of rated voltage.
2. There is no requirement for namesake terminal of input signal connection.
3. The output signal and the power source must be earthed in common. Please keep right connection, don't in error set.

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