

C Series
Single Channel
Frequency Transmitter

→ Introductions

This frequency transmitter converts the frequency signals to current or voltage signals. DIN rail power supply function can be selected in ordering.

The input, output, and power supply are galvanically isolated from each other. It can be interfaced with all kinds of device, such as DCS, PLC and other systems.

→ Parameters

Power supply:

Connection type: Terminals (9+, 10-) or DIN rail connector

Rated voltage: 18 V DC ~ 60 V DC (Recommended voltage: 24 V DC)

Input (1, 2):

Input signal: frequency

Switching point:

Low level: 0 ~ 2 V; High level: 4 ~ 30 V (The other trigger point need to be ordered)

Frequency range: ≤ 100 kHz

Pulse width: ≥ 5 μs

Input resistance: ≥ 10 kΩ

Resolution:

Input frequency < 1 kHz: 0.1 Hz

Input frequency ≥ 1 kHz: 1 Hz

Distribution:

24 V DC: Distribution voltage ≥ 22 V at 20mA

12 V DC: Distribution voltage ≥ 11 V at 20mA

Output (5, 6; 7, 8):

Output current: 0(4) ~ 20 mA; 0 ~ 10 mA

Output voltage: 0(1) ~ 5 V; 0 ~ 10 V

Load resistance:

0(4) ~ 20 mA: ≤ 550 Ω; 0 ~ 10 mA: ≤ 1.1 kΩ

0(1) ~ 5 V: ≥ 1 MΩ; 0 ~ 10 V: ≥ 2 MΩ

Output ripple: ≤ 5 mV_{rms} (Load resistance: 250 Ω)

Transmission characteristics:

Accuracy: ± 0.1% F.S. (25 °C ± 2 °C)

Response time: ≤ 0.5 s

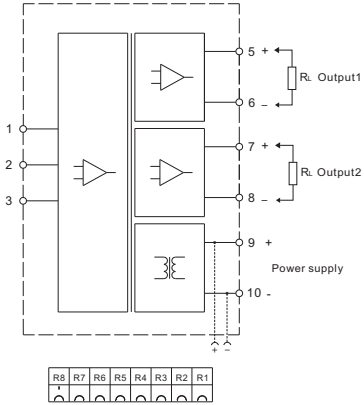
Temperature drift: 30 ppm/°C

Electromagnetic compatibility: Accordance to IEC 61326-3-1

Dielectric strength (1 mA leakage current, 1 minute test time):

≥ 1500 V AC (Input /Output/Power supply)

Single input, double output



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BUS	Electrical Characteristics
Current	Max. 8 A
Voltage (UL/IEC)	1.6 kV
Operation temperature	-40 °C ~ +105 °C

