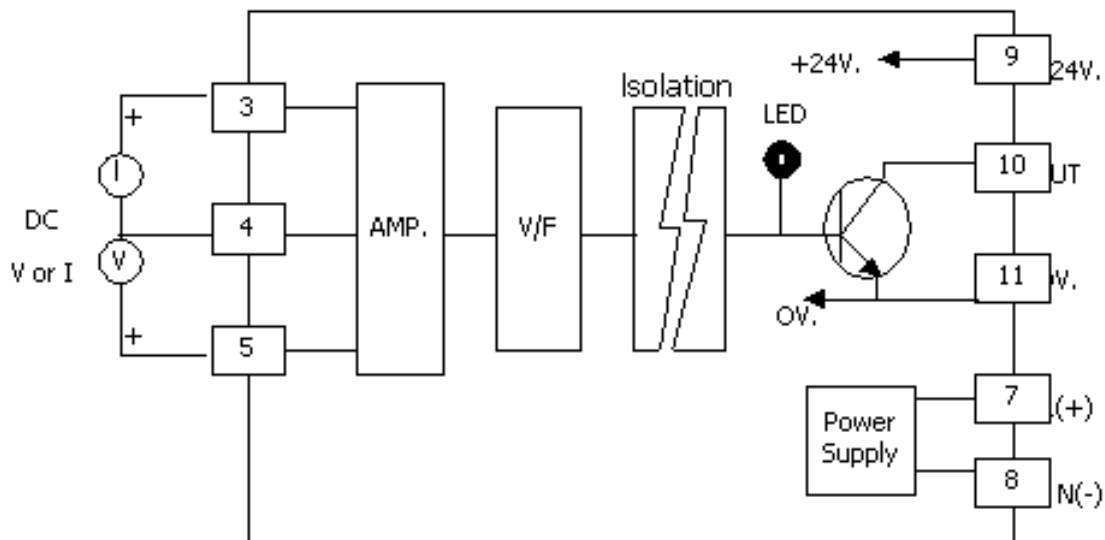


DC To Frequency DF96



- Interface to PLC digital input
- Programmable Range
- Linearized output
- Isolated input to output to Power supply
- D.C. input voltage or current

DC To Frequency DF96 This device enables a PLC to accept DC current or DC voltage signals without requiring an analog input channel. The DF96 operates by converting the DC signal into a frequency signal fed to the PLC's digital input; the PLC's high-speed counter then measures this frequency, which varies in proportion to the DC input value. This device allows Micro PLCs which typically only accept digital inputs to process DC current or DC voltage signals.



Specifications

Analog Input

Number of channel: 1 Channel

Input type: Current, Voltage

Input range:

Current (100 uA DC to 100 mA DC, input resistance 20 Ω)

Voltage (10 mVDC to 100 VDC, min. input resistance 200 K Ω)

Input impedance:

Current (input resistance 20 Ω)

Voltage (min. input resistance 200 K Ω)

Linearity: $< \pm 0.2\%$ of span

Digital Output

Number of channel: 1 Channel

Output type: NPN open collector

I/O Mode: Pulse Output

Pulse Frequency: 0 KHz to 5 KHz

Isolation voltage: 500 VAC between input, output and power supply

Ordering Information: Specify Input, Output, Power supply

Example DF96/0-10 VDC/0 KHz. -5 KHz./220 VAC

Package Checklist

1. DF96

Power Requirements

Power Supply: 100, 110, 220 VAC
24 VDC (Optional)

Environmental Limits

Operating Temperature: 0 to 55 $^{\circ}\text{C}$

Operating Humidity: 5 to 95% RH

Storage Temperature: 0 to 70 $^{\circ}\text{C}$

Physical Characteristics

Dimension: W50 x H70 x D130 mm.

Mounting: Wall or DIN rail

Construction: Plug-in 11 pins socket

Warranty

Warranty Period: 5 Year