Voltage Transducer/Sensor

A1 1-way DC Voltage Transducer

FEATURES

Transforms the measured DC voltage into the 1-way standard DC voltage or DC current output according to linear proportion;
Low power consumption, three isolations, high reliability;
Excellent anti-interference ability and high accuracy (0.2%);
Current terminals input, standard din rail(35mm) mounting;
It was widely applied to all kinds of industrial current online isolation detection system;
Small size, dimension(mm): 95(L)×37(W)×32(H);
Power supply in 11V~30V can be used universally

ELECTRICAL DATA

Standards.....IEC688:1992, QB/LF2007-1
Input Range....0~1000V can choose 0~75mV, 0~300V etc
Accuracy Grade.....≤0.2%F.S.
Temperature Characteristics.....≤50PPM/℃(0~50℃)
Power Consumption.....≤0.3VA
Working Stability.....annual change<0.2%
Isolation Withstand Voltage.....AC2.0KV/min*1mA among input/output/case
Isolation Resistance.....≥20MΩ(DC500V)
Impulse Voltage.....5KV(peak value), 1.2/50uS
Response Time.....≤30mS
Overload Capacity.....2 times voltage continuous
Working Environment.....-10℃~50℃, 20%~90% without condensation
Storage Environment.....-40℃~70℃, 20%~95% without condensation

MODEL

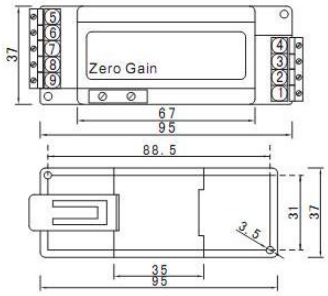
LF-DV1□-□□A1-0.2/□
A B C D

Model selection1: LF-DV11-54A1-0.2/0~5V
Explanation: this product is a 0~5V input range, 4~20mA output, 24V power supply, A1 style 1-way DC voltage three isolation transducer.

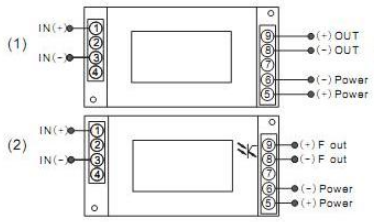
MODEL REMARKS

A. Isolation method:
1: Input/output/power three isolation
2: Input/output two isolation
B. Output:
3: 0~5V
4: 0~20 mA
5: 4 ~20mA
6: 1~5V
8: 0~10V
F: 0~10KHZ
T: Special output
C. Power supply:
2:12V±10%
3:15V±10%
4: 24V±15%
D. Voltage input range

DIMENSION DIAGRAM



CONNECTION DIAGRAM



(when two isolation, please connect 6 and 8)

(1) Voltage, current output;
(2) Frequency output

NOTE

1. Notice the auxiliary power supply information on the label, make sure power supply's degree and polarity are correct before power on.
2. When the transducer used in a strong magnetic environment, the shelter of the input wire, output signal should be as short as possible.
3. This product use the flame retardant ABS plastic case(its utmost temperature is +85℃), please don't bake the case in high temperature, or it will be distorted, influence product's performance.