

DC Isolating Transducer

SPD-1



- ⊙ Standard output with 0 to 1 mAdc;
Option on request
- ⊙ AC 1800V input / output / isolation meets
power series requirement
- ⊙ Meets IEEE SWC test

Specification

1.Accuracy 0.25% RO / 23 ± 3°C

2.Input (each element)

Range	0 - 50 / 0 - 100 / 0 - 200 / 500mV 0 - 1 / 0 - 2 / 0 - 5 / 1 - 5 / 0 - 10 / 2 - 10V 0 - 1 / 0 - 2 / 0 - 5 / 0 - 10 / 0 - 20 / 4 - 20 / 0 - 50 / 10 - 50 mA
Input resistance	Voltage mode > 1 Megaohm; current mode < 1V / max. rated current (mA)
Protection	Full protection for SURGE, EMI & RFI

3.Output (isolated with input)

Range	DC 0 - 1 / 0 - 5 / 0 - 10 / 0 - 20 / 4 - 20 / 0 - 50 / 10 - 50 mA DC 0 - 1 / 0 - 5 / 1 - 5 / 0 - 10 / 2 - 10V
Standard calibration	0 - 1mA vs required input range
Option...specified	
Drive ability	> 10K ohm for 0 to 1mA standard output > 10V for current output mode > 10mA for voltage output mode
Output impedance	> 30 Mega ohm
Response time	< 400 ms from 0 to 99% RO at operating
Ripple	< 0.5% P-P RO
Long term stability	< 0.5% RO per year
Temperature stability	< 0.015% per degree C, from 0 to 55°C
Adjustment	Span, zero ± 15% ro minimum
Protection	No damage ... open or short; full protection of SURGE, EMI, RFI
Magnetic effecton	< 0.04% at center 400 A-T / M

4. Operation condition

Environment

Temperature -5 to 60°C

Humidity 20 to 99% RH non condensed

Elevation Under 3000 meters

Magnetic field 500 A-T / M

Dielectric strength 4KV AC rms 1 minute between input / output / power / case IEC

Impulse test ANSI C37.90/1989, IEEE 587/1983,
IEC 255-3, 6KV (1.2 x 50 us), 3KA (8 x 20 us) current only

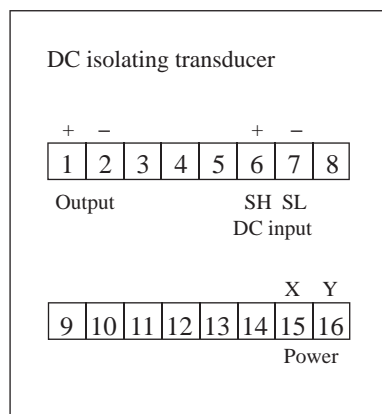
Surge test (ring wave) IEEE587/1983 (3KV - 0.5us / 100KHz)

IEC 255-3 (2.5KV - 0.25ms/ 1MHz)

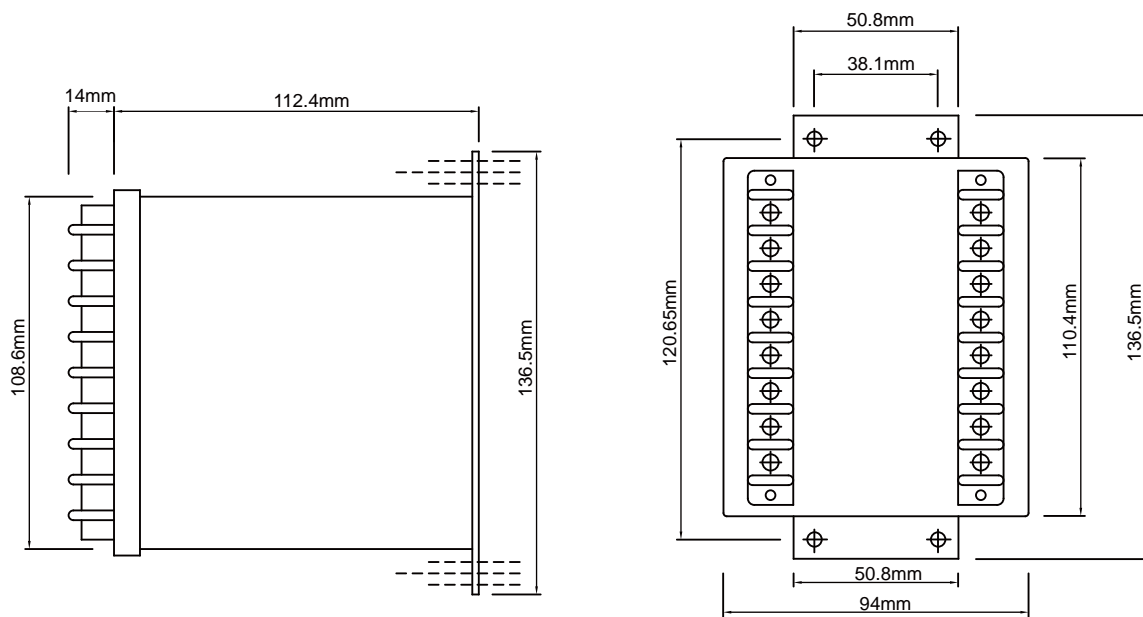
Power supply AC 115V ± 20%, 50 - 70Hz, < 3VA ;

Option AC 230V, DC 12 / 24 / 48 / 125V

Terminal Connection



Dimension



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