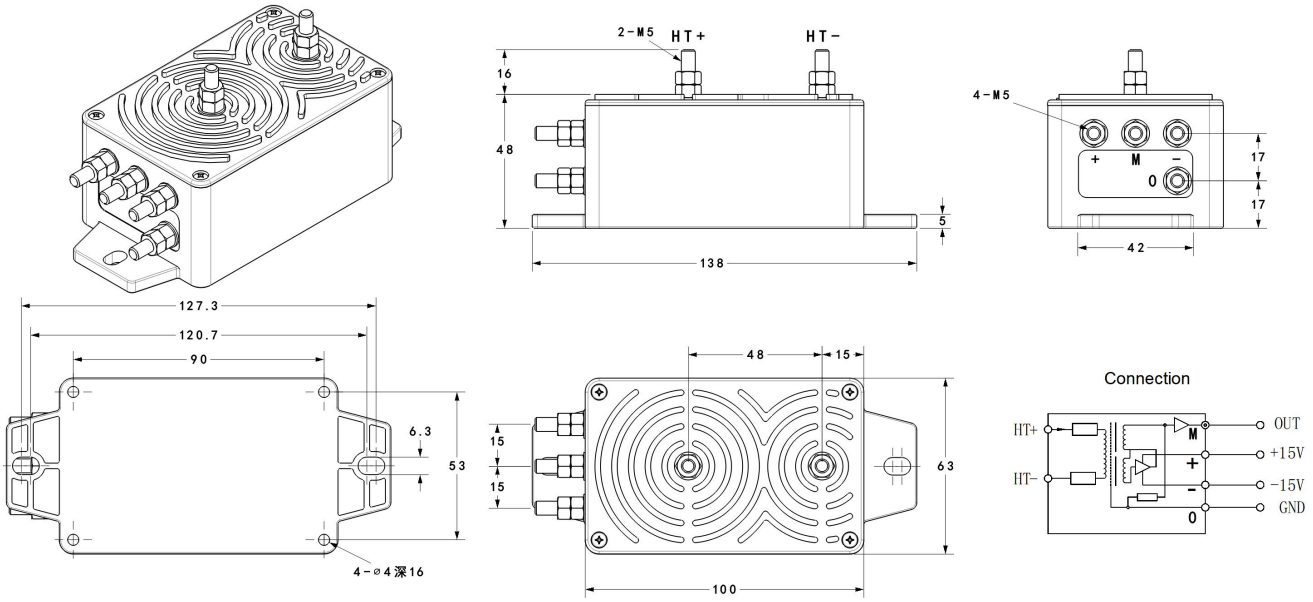
DVSM3000EV/5V Series High Precision Voltage Sensor

Voltage sensor using the principle of magnetic flux gate closed-loop can measure the voltage of various signals such as AC, DC, and mixed voltage under electrical isolation conditions.The high insulation between the primary and secondary edges ensures high accuracy, high linearity, long-term stability, and adaptability to various working environments.

Electrical characteristics								
	Type	DVSM050 EV/5V	DVSM200 EV/5V	DVSM500 EV/5V	DVSM1000 EV/5V	DVSM2000 EV/5V	DVSM3000 EV/5V	
V_{PN}	Primary nominal input voltage	50	200	500	1000	2000	3000	V
V_P	Measuring range of primary voltage	±120%						
V_{OUT}	Norminal output voltage	5						V
V_C	Supply voltage	±12～±15(±5%)						V
I_C	Current Consumption	V_P=0		35				m
V_d	Insulation voltage	AC/50Hz/1min		6				kV
ε_L	Linearity	<0.05						%
X	Accuracy	T_A=25℃ V_C=±15V		±0.1				%
V_0	Offset voltage	T_A=25℃		<±5				m
V_{OT}	Thermal drift of Vo	V_P=0 T_A=-25～+85℃		<±0.1				m
Tr	Response time	<1						us
f	Frequency bandwidth(-3dB)	DC～100						kH
T_A	Ambient operating temperature	-25～+85						℃
T_S	Ambient storage temperature	-40～+100						℃
R_p	Primary coil resistance(about）	50K	200K	0.5M	1.0M	2.0M	3.0M	Ω
R_L	Load resistance	≥5K						Ω
m	Mass	480						g
	Standard	Q/320115QHKJ01-2016						
Dimensions of drawing（mm）								



Remarks

1、Incorrect connection may lead to the damage of the transducer

2、After the sensor is powered on, when the measured voltage is connected from the input HT+and HT - terminals of the sensor, the in-phase voltage value can be measured at the output terminal.

3、The installation of the sensor should be free of conductive dust and Corrosiveness environment .

4、After the sensor is installed, operators should not touch any exposed conductive parts. If necessary, the sensor can be protected, such as adding a protective cover。