EV-C53 series

Voltage Transducer

1. Brief introduction

EV-C53 Voltage transducer uses special Isolation Barrier technology to measure AC and DC or Pulsed voltages. The primary input voltage and the output signal is highly electric isolated. It can be used in Power Utility, Converters, Traction, Telecom, Oil & Gas, and New energy fields.

★ AC,DC, Pulsed voltage measurement ★ Included primary resistor ★ Good linearity ★ Galvanic isolation between primary and secondary circuit ★ Low power consumption ★ High immunity to external interference ★ Low thermal drift

2. Order information (see right chart)

Nominal Voltage:
50 125 150 250 500
750 1000 1500 2000V

Nominal output:
O9: 0±50mA

Power supply:
P5: ±15-±24Vdc

EV-C53−xxxPx Ox

Nominal Voltage:
50V
125V
150V
250V
500V
750V
1000V
1500V
2000V

Power supply:
P5: ±15-±24Vdc

Nominal output:
O9: 0±50mA

3. Eletrical data

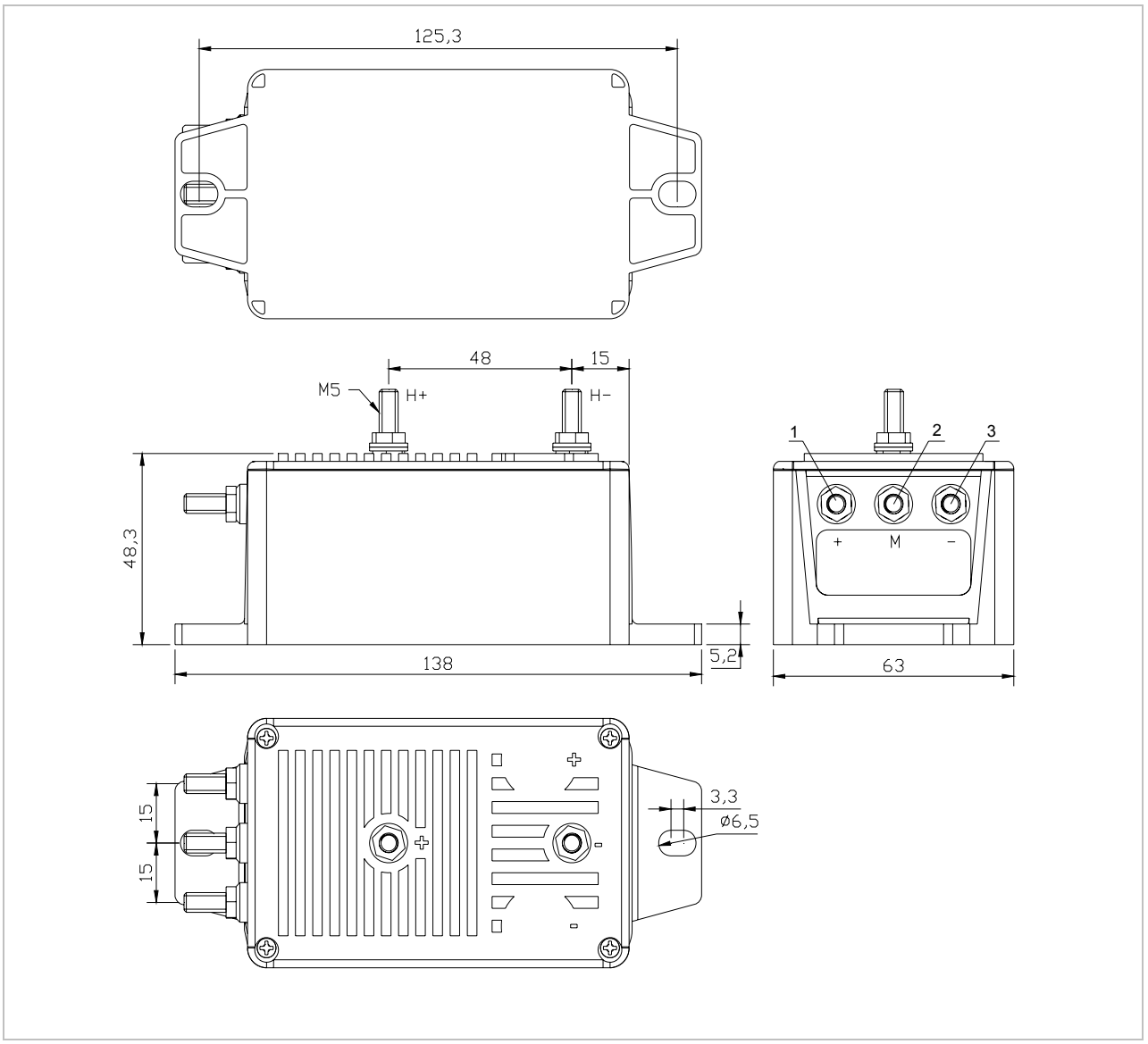
Vpn	Primary nominal voltage (Vrms)	50 125 150 250 500 750 1000 1500 2000V
Vp	Primary voltage, measuring range(Vrms)	150% x Vpn
Isn	Secondary Current output	50mA
X	Accuracy（Ta =+25℃）	≤0.5%
E_L	Linearity error	≤0.1%
Vc	Power supply voltage	Pn(±5%)
Iofs	Offset current（Ta =+25℃）	≤±0.15mA
Tr	Response time	≤ 10uS
f	Frequency bandwidth	DC-13KHZ
Ic	Current consumption	50mA + Is
R_L	Load resistance	≤50Ω
Rp	Primary input resistance	6MΩ
Vd	Isolation test(50HZ,1min)	5KV

ADD: Linhe Industrial Development Zone Shunyi 101300 Beijing China
TEL : Tel : +86 10 89 494 921 Fax : +86 10 89 494 925 508 Ext
Web: http://www.passiontek.com.cn
Email: bjpas@passiontek.com.cn

4. General data：

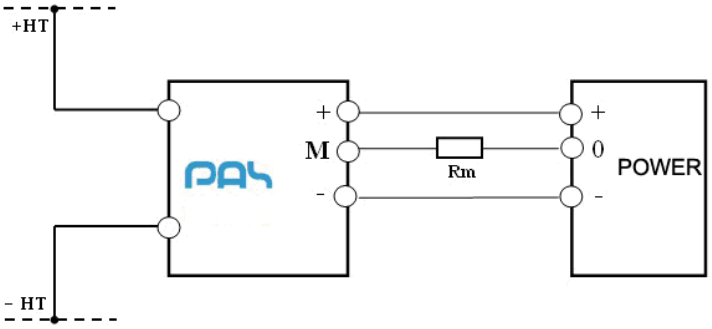
Ta	Ambient operating temperature	-40 - +85 ℃
Ts	Ambient storage temperature	-50 - +90 ℃
W	Mass	350g
St	Standards	EN 50178
Ha	Ambient operating humidity	20-90% RH
	Case material	According to UL94-V0

5. Dimensions



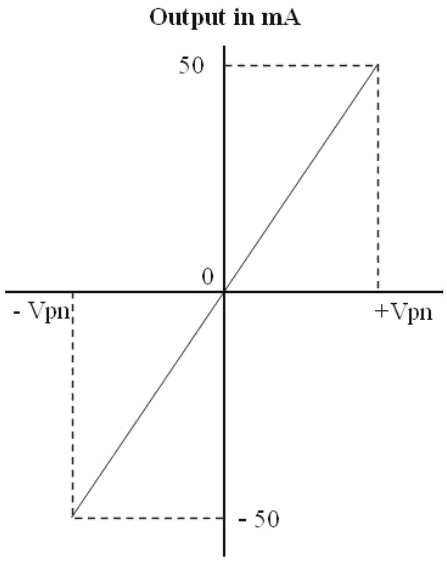
General tolerance	±1mm	
Terminals	Input： 2 x M5	Output： 2 x M5
Fastening	Bottom：2 x Φ6.5mm	Side：2 x Φ4.8mm

6. Connection



Pin	Definition
1	+ Supply voltage+
2	M Output
3	- Supply voltage-

7. Output figure



0±50mA output

8. Safety items

1. Only qualified people can operate with such electrical products.
2. Wrong connection may destroy the products.
3. ESD protection is necessary, please follow the correct process.
4. Do not use in the environment with conductive dust and corrosive gas.
5. Strong vibration and very high temperature may damage the products.

1. After the installation, the bus bar may be connected to the high voltage equipment, please do not touch the exposed parts of the transducers to avoid electric shock!

Note: 1. Passion technology company reserves the right to modify the datasheets at any time without previous notifications.
2. Any question about the datasheet, please contact our TCS。