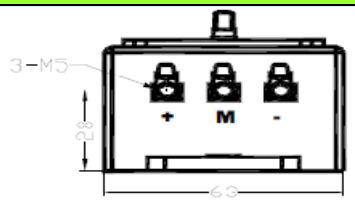
Rongtech Industrial (Shanghai) Inc.,

RTVSM100 series Voltage transducer are based on the principle of Hall-effect. It can be used for Measuring AC,DC,pulsed and mixed voltage.

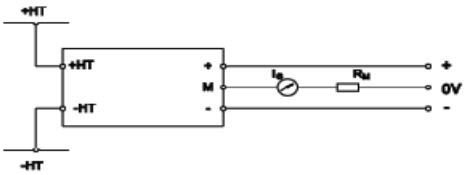
Electrical characteristics										
	Type	RTVSM 100-50	RTVSM 100-150	RTVSM 100-250	RTVSM 100-500	RTVSM 100-750	RTVSM 100-1000	RTVSM 100-1500	RTVSM 100-2000	
V_{PN}	Primary nominal input voltage	50	150	250	500	750	1000	1500	2000	V
V_P	Measuring range of primary voltage	75	225	375	750	1125	1500	2250	3000	V
I_{SN}	Secondary nominal output current	50±0.5%								mA
Ic	Current consumption:	50mA + Is								mA
R_p	Primary resistance	6M	6M	6M	6M	6M	6M	6M	6M	Ω
V_C	Supply voltage	±15-±24Vdc(±5%)								V
V_D	Insulation voltage	AC/50Hz/1min 6								kV
ε_L	linearity	@ VPN, TA=+25 oC: ≤0.1%								%FS
X	Accuracy	T_A=25℃ V_C =±15V 0.5								%
I_O	Zero offset current	T_A=25℃ not more than +/-0.2mA								mA
I_{Off}	Thermal drift of I_0	I_P=0 T_A=-25~+85℃ ≤±0.15mA								mA
T_R	Response time	≤10us								μs
T_A	Ambient operating temperature	-40~+85								℃
T_S	Ambient storage temperature	-55~+105								℃
R_m	Measuring resistance	T_A=25℃ Ipn @±12V < 50								Ω
	Standard	EN50178 & TB/T3021-2001								

Dimensions of drawing (mm)

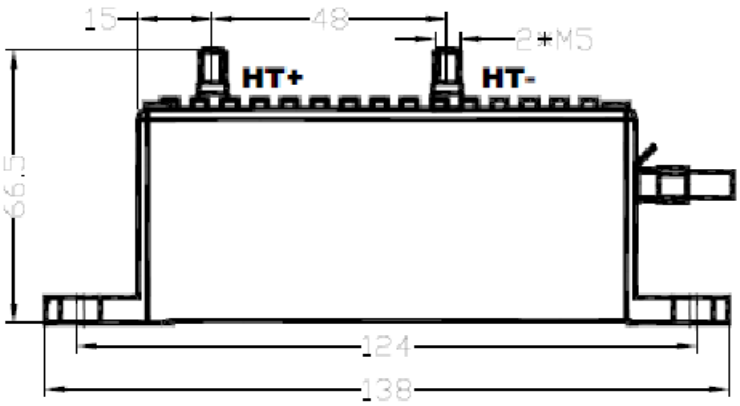


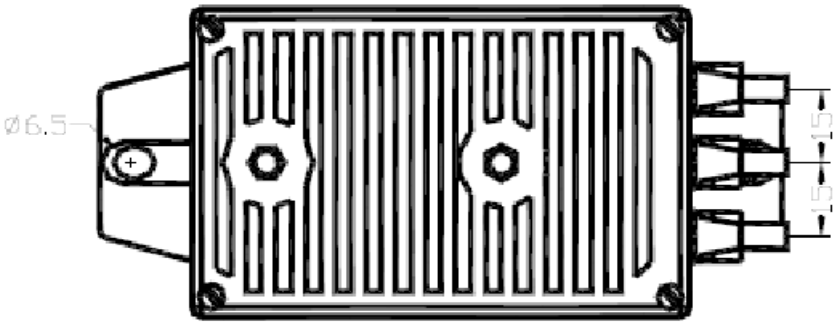
Terminal + : Supply voltage + 12 .. 24 V
Terminal M : Measure
Terminal - : Supply voltage - 12 .. 24 V

Connection



Connection





Remarks

Incorrect connection may lead to the damage of the sensor. ·I_{SN} is positive when the connection of V_P according to the top diagram.