



Voltage Transducer

Applications

For the electronic measurement of voltages: AC, DC IMPL.,etc.,with galvanic isolation between the primary

(high power) and the secondary (electronic) circuits.





Advantages	Applications	Standards
Excellent accuracy	AC variable speed drives	EN50178
Very good linearity	Battery supplied applications	EN50155
	converter /inverter	
	UPS/SVG	

Main electrical data		
I _{PN} (mA)	Primary nominal current rms	10mA
I _P (mA)	Primary current measuring range	0∼±14mA
	Conversion ratio	2500: 1000
$V_{C}(V)$	Supply voltage	\pm 15 $ imes$ (1 \pm 5%)V
I _{SN} (mA)	Secondary nominal current rms	25mA
$R_{M}(\Omega)$	Measuring resistance	@10mA: 100Ω ~340Ω @14mA: 100Ω ~180Ω
I _c (@±15V)	Current consumption	≤10mA+ Secondary output current I _{SN}
	Isolation test: Between the primary circuit to the secondary circuit	4.2 kVrms/50Hz/1min

Accuracy - Dynamic performance data		
δi		≤±0.8%
(@I _{PN} , T _A =25°C)	Overall Accuracy	≥±0.8%
δL		<0.2%
(@I _{PN} , T _A =25°C)	Linearity error	0.2%
I_{O}		≤+0.15mA
(@I _P =0, T _A =25°C)	Offset current	<u> </u>



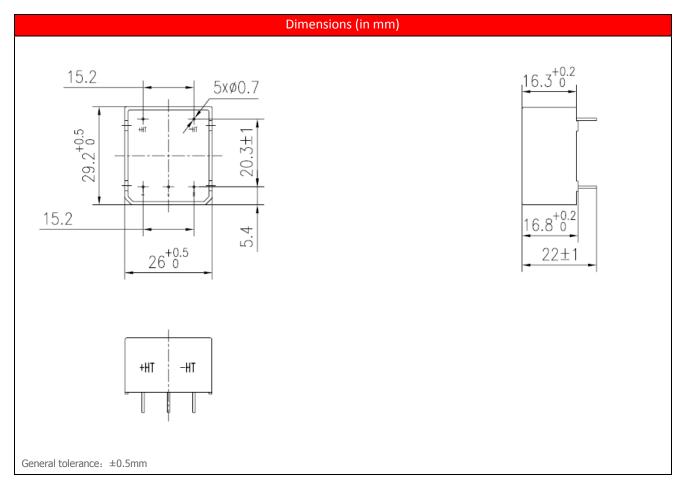


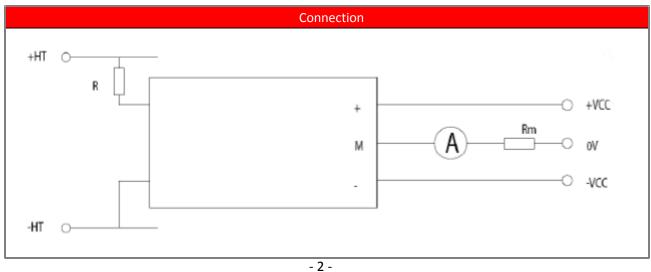




I _{OT}	Thermal drift	≤ ±0.5mA (-25°C~+85°C) ≤ ±0.8mA (-40°C~+85°C)
t_r	Response time to 90% of I _{PN} step	≤40us

General data		
Та	Ambient operating temperature	-40℃~+85℃
Ts	Ambient storage temperature	-50℃~+90℃
m	Mass	≤22g













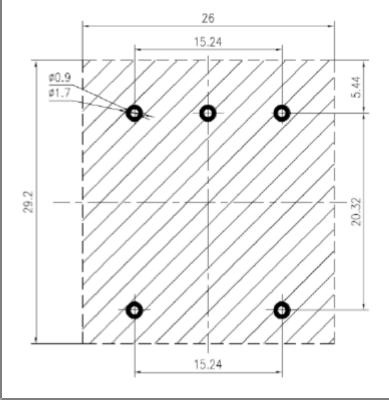
Mechanical characteristics

Remark

Installation: PCB Soldering

Recommend to encapsulate(unit mm)

General tolerance: ±0.5mm



- 1. + HT measure the voltage for the timing, the sensor output ISN is positive (ISN by M end to 0 v end)
- 2. The choice of R, the client through the resistance formula to calculate the value of R.R = U / 0.01 A, the formula of U for under test voltage (V).

