Anti-Magnet AC Current Sensors TXS10P-100A

TXS10P-100A

Features

- ♦ High reliability AC current measurement device
- ♦ External magnetic field anti-tamper shield
- ♦ Quick response speed, very low phase lag
- ♦ High isolation voltage between the measuring circuit and the current-carrying conductor (AC3KV)
- ♦ All materials used are RoHS compliant
- ♦ Flame-Retardant plastic case and silicone encapsulant, using UL 94V0 classified materials.

Applications

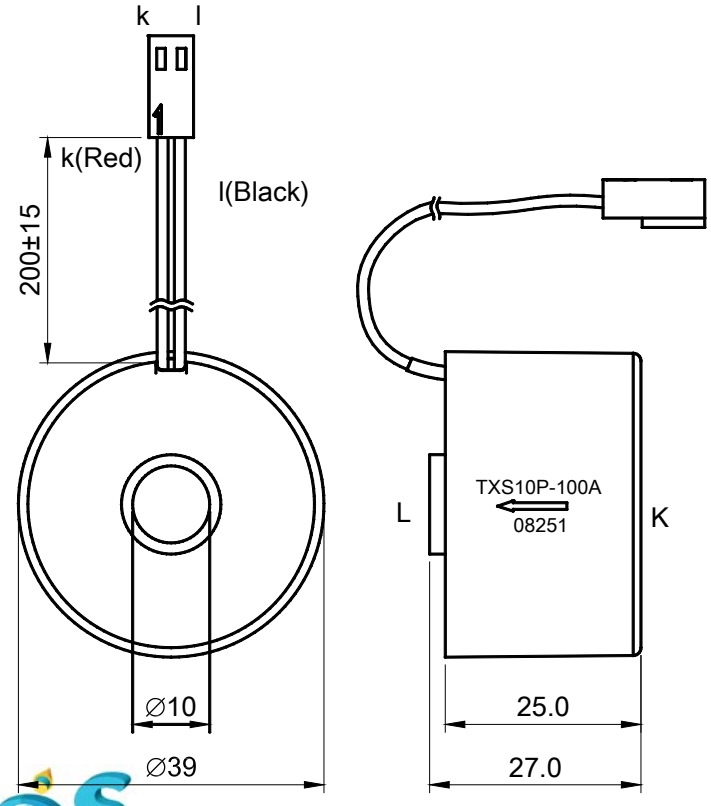
- ♦ ADC inputs
- ♦ Power meters
- ♦ Over current detection
- ♦ Ground Fault detection
- ♦ Isolated AC current monitoring
- ♦ General 50/60Hz current sensing

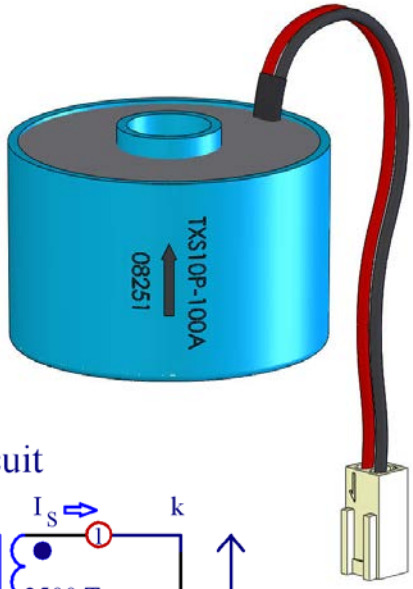
Specifications

Parameter	Symbol	Unit	TXS10P-100A
Nominal Input Current	I_{FN}	A_{RMS}	100
Measuring Range	I_{FS}	A_{RMS}	200
Output Voltage $I_F = I_{FN}$ (R_L=100Ω)	V_{FN}	V_{RMS}	4
Secondary Turns *1	N	-	2500 nominal
Secondary DC Resistance	R_{DC}	Ω	< 125Ω, T_A=25°C
Accuracy Over Working Range *1		%	Within ±0.2% $I_F = 0.1\ I_{FN} \rightarrow 1.0\ I_{FN}$
Dielectric Strength	-	V	AC3KV X 60 sec
Isolation Resistance @ 1000 VDC	R_{IS}	MΩ	> 500 MΩ
Operating Temperature	T_a	°C	-20°C to 100°C
Storage Temperature	T_s	°C	-20°C to 125°C
Mass	W	g	90g

*1. The number of secondary turns for each part model might be adjusted for the best accuracy of output voltage at nominal input current level.

Appearance, dimensions and pin identification (All dimensions in mm ±0.5, holes –0, +0.3 except otherwise noted)





Test Circuit