

Topstek AC Current Sensors TZ2X30-10A

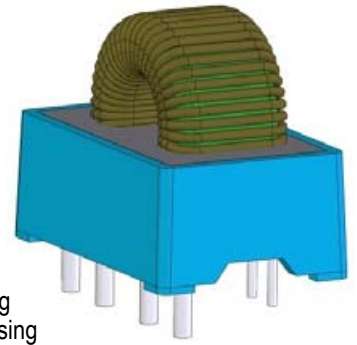
TZ2X30-10A

Features

- ◆ High reliability AC current measurement device
- ◆ Two primary inputs for leakage and ground fault detection
- ◆ Quick response speed, very low phase lag
- ◆ High isolation voltage between the measuring circuit and the current-carrying conductor (AC4KV)
- ◆ 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	TZ2X30-10A
Nominal Input Current	I_{FN}	A_{RMS}	10
Linear Range	I_{FS}	A_{RMS}	20
Output Current $I_F = I_{FN}$ ($R_L < 10m\Omega$)	I_{FN}	A_{RMS}	0.33
Secondary Turns *1	N	-	30 nominal
Secondary DC Resistance	R_{DC}	Ω	$< 60m\Omega$, $T_A = 25^\circ C$
Accuracy Over Working Range *1		%	Within $\pm 2\%$ $I_F = 0.1 I_{FN} \rightarrow 2.0 I_{FN}$
Dielectric Strength	-	V	AC1KV X 60 sec
Isolation Resistance @ 1000 VDC	R_{IS}	$M\Omega$	$> 500 M\Omega$
Operating Temperature	T_a	$^\circ C$	$-20^\circ C$ to $120^\circ C$
Storage Temperature	T_s	$^\circ C$	$-20^\circ C$ to $125^\circ C$
Mass	W	g	10g

*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 ± 0.2 ,

holes $-0, +0.2$ except otherwise noted

