

# Topstek AC Current Sensors TZ2X30-10A

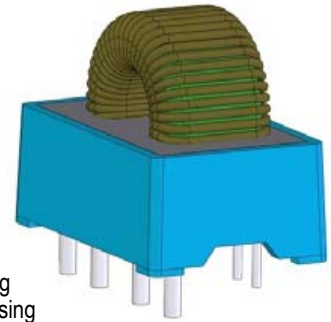
## TZ2X30-10A

### 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	$R_{DC}$	$\Omega$	$< 60m\Omega$ , $T_A = 25^\circ C$
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  $\pm 0.2$ ,  
holes  $-0, +0.2$  except otherwise noted

