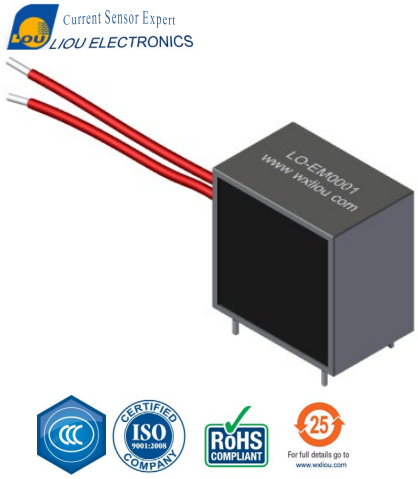


Description

- 50/60 Hz，Single Phase，AC Current Sensor
- Dynamic Range from 0.1 to 9Amps
- Meets IEC62053-21 class 1
- Meets IEC 60044-1 class 0.1 Phase error < 5'
- Immune to external AC magnetic field. Immune to DC current & DC magnetic field
- Very low temperature coefficient
- Meets UL class B (130°C) thermal insulation system
- Meets UL 94V-0
- AC isolation resistance: 4KV for 60s

Application

- Electricity meter
- Recording
- Power monitoring
- Energy management
- Alternative energy monitoring

ELECTRIC SPECIFICAITON AT 25℃										
Model number	Turns Ration	Ipri[4]	Iout[5]	Iprimax[6]	Ioutmax[7]	R_S	Accuracy Class[3]	R_L[8]	Weight	Frequency range
		Amps	**mA**	**Amps**	**mA**	**Ohms**		**Ohms**	**(g)**	**(Hz)**
LO-EM0001	1:300	1.5	5	9	30		0.1	≤40	40	50-60

Note:

1.Output voltage is proportional to the derivative(di/dt)of the input current based on the Rogowski Coil principle.

2.All current and voltages assumed to be sinusoidal waveforms at Fr, the constant rated frequency in Hz, measured as RMS value.

3.Accuracy class per IEC60044-1Table 11.

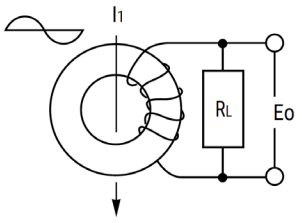
4.Ipri=Rated primary current.

5.Iout=Rated secondary current.

6.Iprimax=Sensed max primary current.

ABSOLUTE MAXIMUM RATINGS	
Operating free air temperature range	-40℃ to 85℃
Storage temperature range	-40℃ to 60℃
SOLDERING INFORMATION	
Peak wave solder temperature	300℃ for 10Seconds
Pin finish	Tin

Measuring Circuit



I_1 : Primary current (AT)
R_L : Load resistance (Ω)
E_o : Output voltage (mV_{rms})

Mechanical Specifications