>>> FCT1K0AB15EY

FCT1K0AB15EY

Main characteristics:

- Nominal current measurement: from ±1000A DC, AC
- Excellent linearity: 15 ppm
- High resolution
- Very low offset drift
- Overall accuracy at I_{PN} @ +25°C: $\leq\pm0.01$ %
- Wide frequency bandwidth up to 200 kHz (- 3 dB)
- ROHS Compliant

Features:

- DC, AC pulse currents' measurements with galvanic isolation
- Nano Crystal Fluxgate technology
- Electrostatic shield between primary and secondary circuit
- Bipolar Power supply ±15 Volt
- Operating temperature range from -40 to +85°C
- Wire Connector Type
- Current output

Standard compliance:

- Typical applications:
- Feedback element in precision current regulated devices (power supplies...)
- Precise and high stability inverters
- Medical equipment
- Energy measurement
- Power analyzers

Remarks:

- Current overload capability
- Additional output indicating the transducer state

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Specification

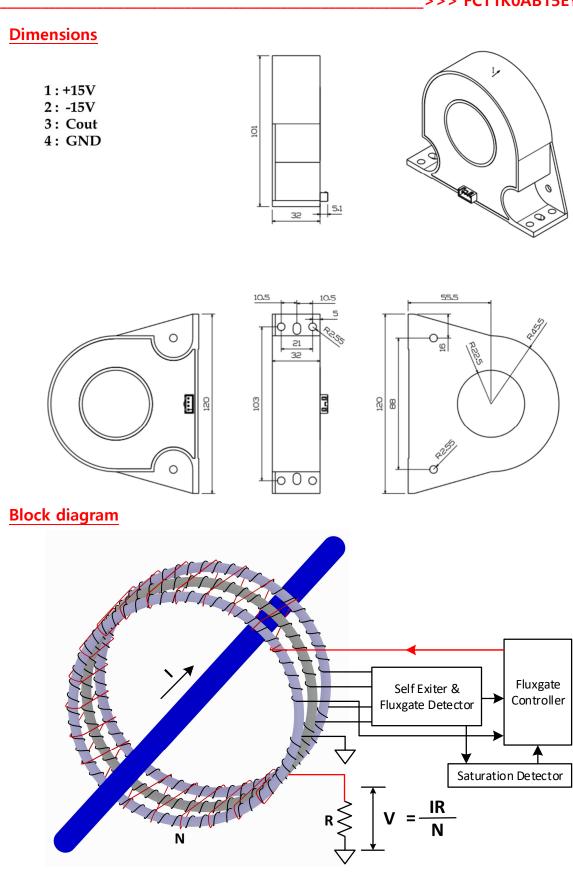
Nominal primary current (I _{PN})	±1000A	A r.m.s.
Measuring range @ ±15V (±5%)	±1100A	A peak
Max. measuring resistance @ I_P max & ±15V (±5%)	2	Ω
Min. measuring resistance @ I_{PN} & ±15V (±5%)	0.1	Ω
Turn number	2000	Turn
Secondary current at I _{PN}	1000/2000	А
Accuracy at I _{PN} @ +25°C	≤±0.01	%
Linearity	≤±0.005	%
Thermal drift coefficient @ -40 ~ +85°C	≤0.5	uA/°C
Bandwidth @ -3dB	≤200	kHz
Max. no-load consumption current @ ±15V (±5%)	≤30	mA
Secondary resistance @ +85°C	≤18	Ω
Dielectric strength Primary/Secondary @ 50Hz, 1min	3	kV
Supply voltage @ ±20%	±15V	V dc
Voltage drop	≤1	V
Mass	0.94	kg
Operating temperature	-40 ~ +85	°C
Storage temperature	-45 ~ +125	°C

General data

- Plastic case and insulating resin are self-extinguishing.
- Fixing holes in the case molding for two positions at right angles
- Direction of the current: A primary current flowing in the direction of the arrow results in a positive secondary output current from terminal C_{OUT}.

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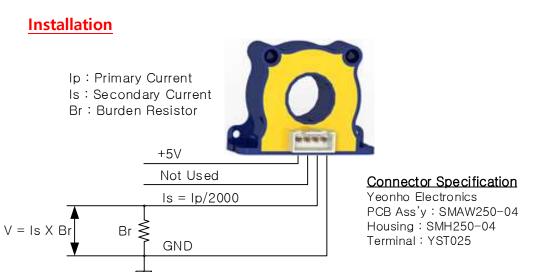


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* The positive direction of the current from the front to the rear of the head (the front of the contactor).

(Secondary_Resistance + Measuring_Resistance) x Max_Secondary_Current + 4V = 15VMeasuring_Resistance = $(15 - 4) / Max_Secondary_Current - Secondary_Resistance$ Therefore, Meauring_Resistance = $11/(1100/2000) - 18 = 2 \Omega$

Caution

Be careful not to operate under 0.1Ω burden resistor. The current sensor is damaged.