Power Transducer Series L-UNIT

CT TRANSDUCER

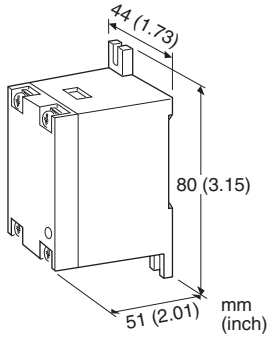
(super-miniature size; self-powered, average sensing, RMS calibrated)

Functions & Features

• Converting an alternating current from a current transformer into a standard process signal
• Minimum ripple
• No auxiliary power source required
• Isolation up to 2000 V AC
• High-density mounting

Typical Applications

• Centralized monitoring and control of motors, pumps or heaters by DCS
• Monitoring power line and power supply current



MODEL: LECA-[1][2][3][4]

ORDERING INFORMATION

• Code number: LECA -[1][2][3][4]
Specify a code from below for each of [1] through [4].
(e.g. LECA-51G/Q)
• Load resistance (e.g. 160 Ω)
• Specify the specification for option code /Q
(e.g. /C01/S01)

[1] INPUT

Current
1: 0 – 1 A AC
5: 0 – 5 A AC

[2] FREQUENCY

1: 50 Hz
2: 60 Hz

[3] OUTPUT

Current
G: 0 – 1 mA DC
Voltage
4: 0 – 10 V DC
5: 0 – 5 V DC

[4] OPTIONS

blank: none
/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to our web site.)
/C01: Silicone coating
/C02: Polyurethane coating
/C03: Rubber coating
TERMINAL SCREW MATERIAL
/S01: Stainless steel

GENERAL SPECIFICATIONS

Construction: Stand-alone; terminal access at the front
Connection: M4 screw terminals (torque 1.2 N·m)
Screw terminal: Nickel-plated brass (standard) or stainless steel
Housing material: Flame-resistant resin (black)
Isolation: Input to output
Input waveform: Sine wave
Overrange output: 0 to 120 %
Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

Frequency: 50 or 60 Hz
Input burden: 1 VA
Overload capacity: 1000 % of rating for 3 sec., 200 % of rating for 10sec., 120 % continuous
Operational range: 0 – 120 % of rating

OUTPUT SPECIFICATIONS

■ DC Current
Load resistance
(Output Range) 0 - 1 mA DC: ≤ 5000 Ω
■ DC Voltage
Load resistance
(Output Range) 0 - 10 V DC: ≥ 100 kΩ
0 - 5 V DC: ≥ 50 kΩ

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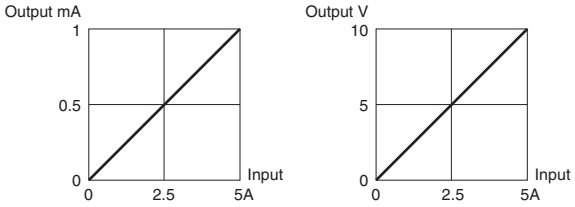
■ OPERATION DIAGRAM (example)



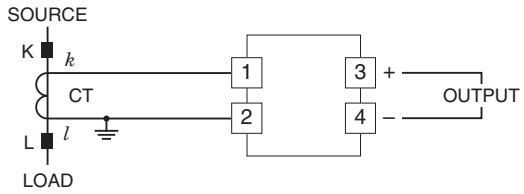
INSTALLATION

Operating temperature: -10 to +55°C (14 to 131°F)
Operating humidity: 30 to 85 %RH (non-condensing)
Mounting: Surface or DIN rail
Weight: 170 g (0.37 lb)

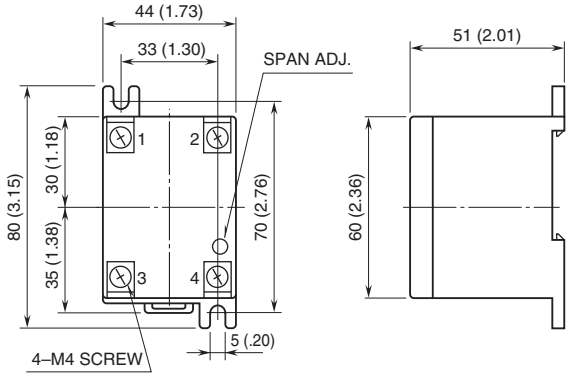
PERFORMANCE in percentage of span

Accuracy: ±0.5 % (at 23°C ±10°C or 73.4°F ±18°F, at rated frequency ±5 %)
Response time: ≤ 2 sec. (0 – 100 % ±1 %)
Ripple: 1 %p-p max.
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 2000 V AC @1 minute
(input to output to ground)
Impulse withstand voltage: 1.2 / 50 µsec., ±5 kV
(input to output or ground)

CONNECTION DIAGRAM



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



•When mounting, no extra space is needed between units.

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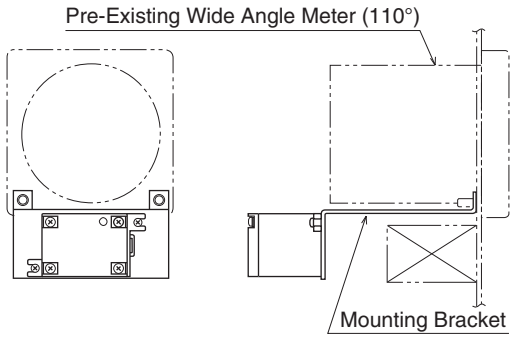
■ **BRACKET MOUNTING EXAMPLE**

If there is no space for mounting, then mounting can be done as per the figure below



⚠ Specifications are subject to change without notice.

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