Power Transducer Series L-UNIT

CT TRANSDUCER

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

Functions & Features

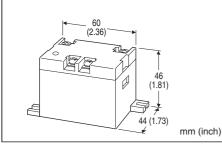
 Converting an alternating current from a current transformer into a standard process signal

- 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: LDCK-[1][2][3]

ORDERING INFORMATION

Code number: LDCK-[1][2][3]

- Specify a code from below for each of [1] through [3]. (e.g. LDCK-55/D/Q)
- Specify the specification for option code /Q (e.g. /C01/S01)

[1] **INPUT**

Current 1: 0 – 1 A AC (used within 0.1 – 1 A) **5**: 0 – 5 A AC (used within 0.5 – 5 A)

[2] **OUTPUT**

Current

G: 0 – 1 mA DC (Load resistance 5000 Ω max.) Voltage

- **3**: 0 1 V DC (Load resistance 2000 Ω min.)
- **4**: 0 10 V DC (Load resistance 20 k Ω min.)
- 5: 0 5 V DC (Load resistance 10 k Ω min.)

[3] OPTIONS (multiple selections)

Mounting blank: Surface /D: DIN rail Other Options blank: none **/Q**: Option other than the above (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

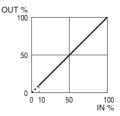
Construction: Stand-alone; terminal access at the front **Connection**: M4 screw terminals (torgue 1.2 N·m) Screw terminal: Nickel-plated brass (standard) or stainless steel Housing material: Flame-resistant resin (black) Isolation: Input to output Input waveform: Up to 5 % of 3rd harmonic content Overrange output: 10 - 120 % at 0 - 5 V Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

Frequency: 50 or 60 Hz Input burden: 2 VA Overload capacity: 1000 % of rating for 3 sec., 200 % for 10 sec., 120 % continuous Operational range: 10 - 120 % of rating

OUTPUT SPECIFICATIONS

OPERATION DIAGRAM



Note: The described accuracy is not assured within 0 - 10% of the rating, though output signal exists.

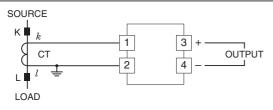
INSTALLATION

Operating temperature: -10 to +55°C (14 to 131°F) Operating humidity: 30 to 85 %RH (non-condensing) Mounting: Surface or DIN rail Weight: 150 g (0.33 lb) for surface mounting 170 g (0.37 lb) for DIN rail mounting

PERFORMANCE in percentage of span

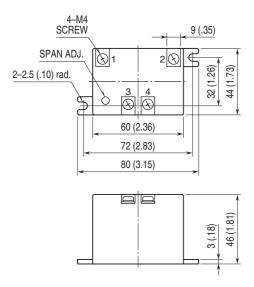
Accuracy: $\pm 0.5 \%$ (at 23°C $\pm 10°$ C or 73.4°F $\pm 18°$ F, 45 - 65 Hz) Response time: ≤ 2 sec. (0 - 100 % $\pm 1 \%$) Ripple: 1 %p-p max. Insulation resistance: $\geq 100 M\Omega$ with 500 V DC Dielectric strength: 2000 V AC @1 minute (input to output to ground) Impulse withstand voltage: 1.2 / 50 µsec., $\pm 5 \text{ kV}$ (input to output or ground)

CONNECTION DIAGRAM

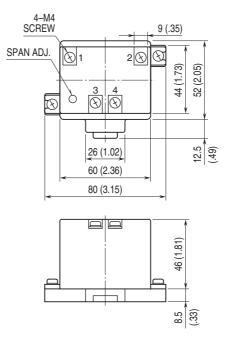


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]

SURFACE MOUNTING



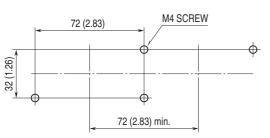
■ DIN RAIL MOUNTING

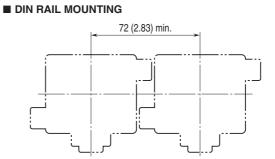


MODEL: LDCK

MOUNTING REQUIREMENTS unit: mm [inch]

SURFACE MOUNTING





Specifications are subject to change without notice.