MODEL: LDCA

Power Transducer Series L-UNIT

CT TRANSDUCER

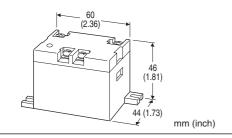
(super-miniature size; self-powered; average sensing; RMS calibrated)

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: LDCA-[1][2][3]

ORDERING INFORMATION

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

Specify a code from below for each of [1] through [3].

(e.g. LDCA-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: $0 - 1 \text{ V DC (Load resistance 2000 } \Omega \text{ min.)}$

4: 0 – 10 V DC (Load resistance 20 kΩ 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 (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: 10 - 120 % at 0 - 5 V Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

Frequency: 50 or 60 Hz Input burden: 2 VA

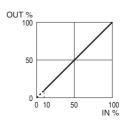
Overload capacity: 1000 % of rating for 3 sec., 200 % for 10

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.

MODEL: LDCA

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 ± 10 °C or 73.4°F ± 18 °F,

45 - 65 Hz)

Response time: \leq 2 sec. (0 - 100 % ±1 %)

Ripple: 1 %p-p max.

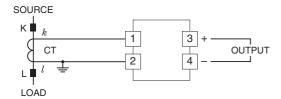
Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC Dielectric strength: 2000 V AC @1 minute

(input to output to ground)

Impulse withstand voltage: 1.2 / 50 µsec., ±5 kV

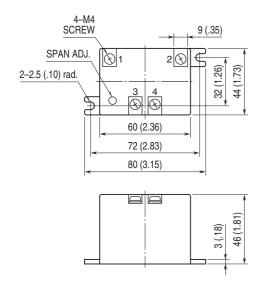
(input to output or ground)

CONNECTION DIAGRAM

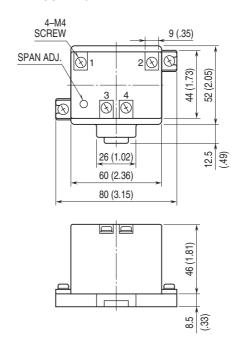


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]

■ SURFACE MOUNTING



■ DIN RAIL MOUNTING



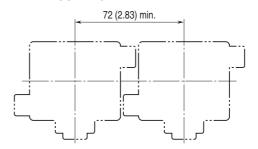
MODEL: LDCA

MOUNTING REQUIREMENTS unit: mm [inch]

■ SURFACE MOUNTING

72 (2.83) M4 SCREW 98. 72 (2.83) min.

■ DIN RAIL MOUNTING



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Specifications are subject to change without notice.