

## Power Transducer Series L-UNIT

### PT TRANSDUCER

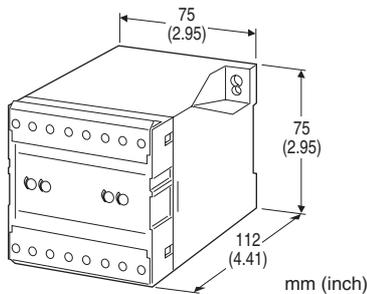
(dual; self-powered; average sensing; RMS calibrated)

#### Functions & Features

- Converting an alternating voltage from a potential (voltage) transformer into a standard process signal
- Minimum ripple
- 2 transducers in one enclosure
- No auxiliary power source required
- Isolation up to 2000 V AC
- High-density mounting

#### Typical Applications

- Centralized monitoring and control of power line and power supply voltages measured at switch boards
- Monitoring abnormal voltage drops for detecting overload



### MODEL: L2PNA-[1][2][3]

#### ORDERING INFORMATION

- Code number: L2PNA-[1][2][3]
- Specify a code from below for each of [1] through [3].  
(e.g. L2PNA-55/Q)
- Specify the specification for option code /Q  
(e.g. /C01/S01)

#### [1] INPUT

Voltage

- 5: 0 - 150 V AC (used within 90 - 150 V)
- 6: 0 - 300 V AC (used within 180 - 300 V)

#### [2] OUTPUT

Current

- G: 0 - 1 mA DC (Load resistance 5000  $\Omega$  max.)

Voltage

- 3: 0 - 1 V DC (Load resistance 2000  $\Omega$  min.)
- 4: 0 - 10 V DC (Load resistance 20 k $\Omega$  min.)
- 5: 0 - 5 V DC (Load resistance 10 k $\Omega$  min.)

#### [3] 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:** M3.5 screw terminals (torque 0.8 N·m)

**Screw terminal:** Nickel-plated steel (standard) or stainless steel

**Housing material:** Flame-resistant resin (black)

**Isolation:** Input to output, between channels

**Input waveform:** Sine wave

**Overrange output:** 60 - 120 % at 0 - 5 V

**Span adjustment:** 95 to 105 % (front)

#### INPUT SPECIFICATIONS

**Frequency:** 50 or 60 Hz

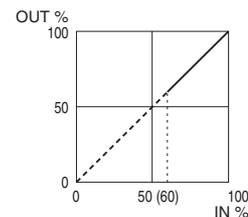
**Input burden:** 2 VA per channel

**Overload capacity:** 150 % of rating for 10 sec., 120 % continuous

**Operational range:** 60 - 120 % of rating

#### OUTPUT SPECIFICATIONS

##### ■ OPERATION DIAGRAM



Note: The described accuracy is not assured within 0 - 60% 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:** 300 g (0.66 lb)

## PERFORMANCE in percentage of span

**Accuracy:**  $\pm 0.5\%$  (at  $23^{\circ}\text{C} \pm 10^{\circ}\text{C}$  or  $73.4^{\circ}\text{F} \pm 18^{\circ}\text{F}$ ,  
45 - 65 Hz)

**Response time:**  $\leq 2$  sec. (0 - 100 %  $\pm 1\%$ )

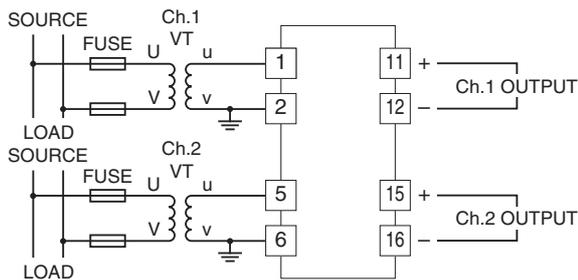
**Ripple:** 1 %p-p max.

**Insulation resistance:**  $\geq 100\text{ M}\Omega$  with 500 V DC

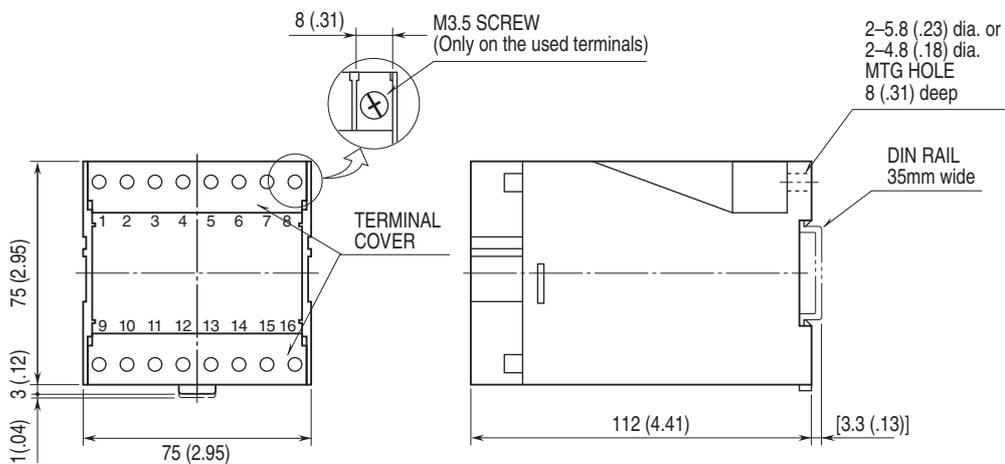
**Dielectric strength:** 2000 V AC @ 1 minute  
(input to output to ground, between channels)

**Impulse withstand voltage:** 1.2 / 50  $\mu\text{sec.}$ ,  $\pm 5\text{ kV}$   
(input to output or ground)

## CONNECTION DIAGRAM

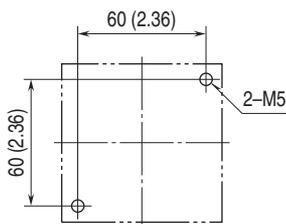


## EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]

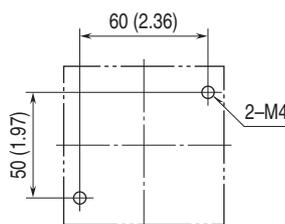


## MOUNTING REQUIREMENTS unit: mm [inch]

### ■ M5 SCREWS



### ■ M4 SCREWS





Specifications are subject to change without notice.