MODEL: KPNA

Plug-in Signal Conditioners K-UNIT

PT TRANSMITTER

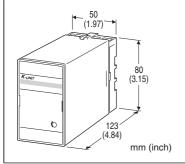
(self-powered, average sensing, RMS calibrated)

Functions & Features

- Converting an alternating voltage from a potential (voltage) 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 power line and power supply voltages measured at switch boards
- Monitoring abnormal voltage drops for detecting overload



MODEL: KPNA-[1][2][3]

ORDERING INFORMATION

• Code number: KPNA-[1][2][3] Specify a code from below for each of [1] through [3]. (e.g. KPNA-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

 $\textbf{G}{:}~0$ – 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

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: Plug-in

Connection: M3.5 screw terminals

Screw terminal: Chromated steel (standard) or stainless

steel

Housing material: Flame-resistant resin (black)

Isolation: Input to output **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

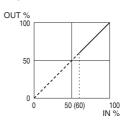
Overload capacity: 150 % of rating for 10 sec., 120 %

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**: 200 g (0.44 lb)

MODEL: KPNA

PERFORMANCE in percentage of span

Accuracy: ±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.

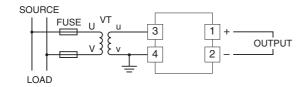
Insulation resistance: ≥ 100 M Ω with 500 V DC Dielectric strength: 2000 V AC @1 minute

(input to output to ground)

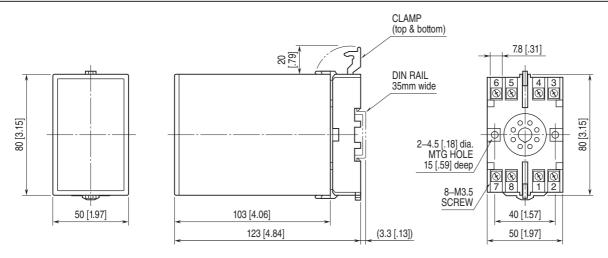
Impulse withstand voltage: 1.2 / 50 µsec., ±5 kV

(input to output or ground)

CONNECTION DIAGRAM



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



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



Specifications are subject to change without notice.