Dual Channel Input/Output Isolators 15-RACK

PT CONVERTER

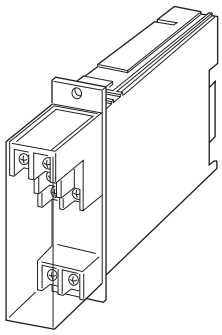
(RMS sensing)

Functions & Features

• Converting an alternating voltage from a potential (voltage) transformer into a standard process signal
• Minimum ripple
• 2 channels available; accomplishing economical and space-saving multi-input processing

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: 15PE–[1]6-R[2]

ORDERING INFORMATION

• Code number: 15PE-[1]6-R[2]
Specify a code from below for each of [1] and [2].
(e.g. 15PE-16-R/Q)
• Specify the specification for option code /Q
(e.g. /C01)

[1] INPUT

Voltage
1: 0 – 110 V AC
5: 0 – 150 V AC

OUTPUT

Voltage
6: 1 – 5 V DC (Load resistance 5000 Ω min.)

POWER INPUT

DC Power
R: 24 V DC
(Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

[2] OPTIONS

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

SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to our web site.)
/C01: Silicone coating
/C02: Polyurethane coating
/C03: Rubber coating

RELATED PRODUCTS

• Extender card (model:10EC)
Necessary to adjust span.

GENERAL SPECIFICATIONS

Construction: Rack-mounted; terminal access via screw terminals at the front and via card-edge connector at the rear; terminal cover provided
Connection
Input: M3.5 screw terminals (torque 0.8 N·m)
Output: Card-edge connector and M3.5 screw terminals (torque 0.8 N·m)
Power input: Supplied from card-edge connector
Screw terminal: Nickel-plated steel
Housing material: Flame-resistant resin (black)
Isolation: Input to output or power; ch.1 input to ch.2 input
Input waveform: Up to 15 % of 3rd harmonic content
Overrange output: 0 to 120 %
Zero adjustment: -5 to +5 % (front)
Span adjustment: 95 to 105 % (top)

INPUT SPECIFICATIONS

Frequency: 50 or 60 Hz
Input burden: 0.5 VA max.
Overload capacity: 200 % of rating for 1 minute, 120 % continuous
Operational range: 0 – 120 % of rating

INSTALLATION

Power consumption: Approx. 10 mA
Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: Standard Rack 15BX
Weight: 180 g (0.40 lb)

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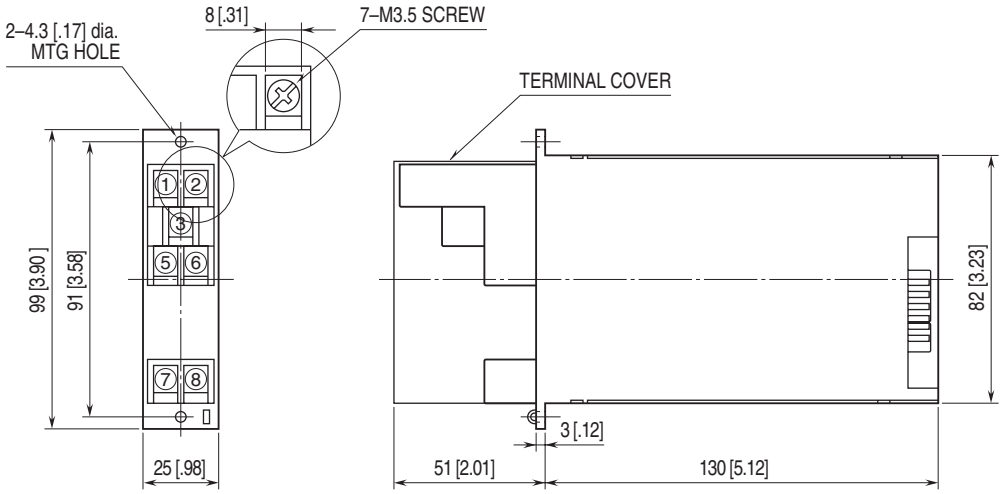
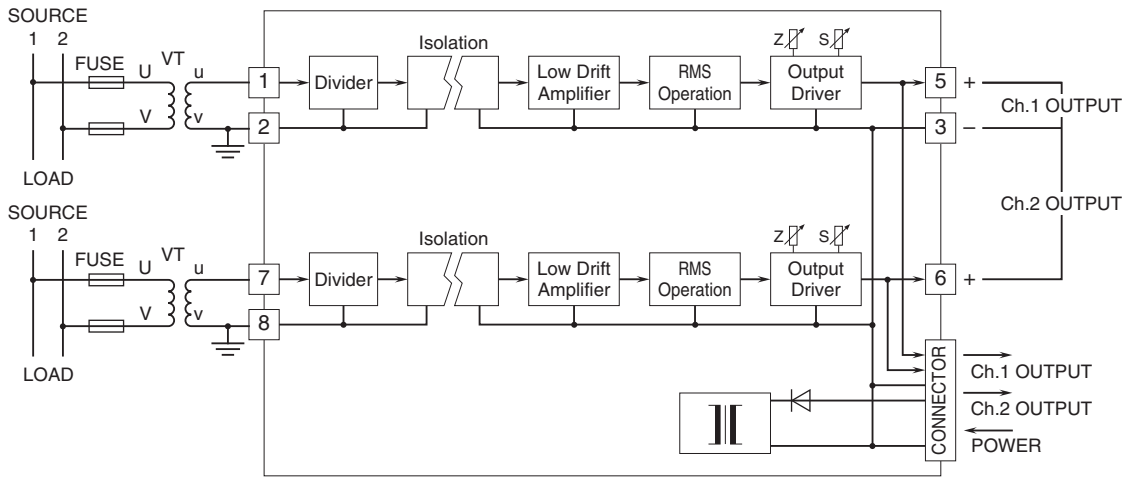
PERFORMANCE in percentage of span

Accuracy: ±0.4 %
Temp. coefficient: ±0.02 %/°C (±0.01 %/°F)
Response time: ≤ 0.5 sec. (0 – 90 %)
Ripple: 0.5 %p-p max. (100/120 Hz)
Line voltage effect: ±0.1 % over voltage range
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 2000 V AC @ 1 minute (input to output or power)
2000 V AC @1 minute (ch.1 to ch.2 input)

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



⚠ Specifications are subject to change without notice.

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