

Rack-mounted Power Transducers 17-RACK

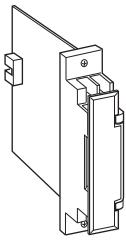
FREQUENCY TRANSDUCER

Functions & Features

- Providing a DC output signal in proportion to deviation (± 5 or 10 Hz) from center frequency (50 Hz, 60Hz or 55 Hz)
- DC output containing little ripple is ideal for computer input

Typical Applications

- Centralized monitoring and control of power management system in manufacturing facility or building
- Measuring frequency for UPS



MODEL: 17HZ-[1][2]6-R

ORDERING INFORMATION

- Code number: 17HZ-[1][2]6-R
- Specify a code from below for each of [1] and [2].
(e.g. 17HZ-316-R)

[1] FREQUENCY

- 1: 45 - 55 Hz
- 2: 55 - 65 Hz
- 3: 45 - 65 Hz

[2] INPUT

- 1: 110 V AC
- 2: 220 V AC

OUTPUT

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

AUXILIARY POWER SUPPLY

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

GENERAL SPECIFICATIONS

Construction: Rack-mounted; terminal access via screw terminals on the front and connector on the rear; terminal cover provided

Connection

Input: M3.5 screw terminals (torque 0.8 N·m)

Output: Connector

Auxiliary power: Supplied from connector

Screw terminal: Nickel-plated steel

Isolation: Input to output to auxiliary power

Computation: One-shot

Overrange output: Approx. -10 to +120 %

Zero adjustment: -5 to +5 % (front)

Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

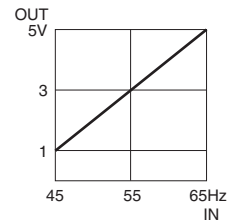
Input burden: 1 VA

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

Operational range: 85 - 120 % of rating

OUTPUT SPECIFICATIONS

- Operation Diagram (example)



Remark: When there is no input voltage, the transducer outputs as negative (-) overrange.

INSTALLATION

Auxiliary power supply

Current consumption: Approx. 40 mA

Operating temperature: -5 to +55°C (23 to 131°F)

Operating humidity: 40 to 85 % RH (non-condensing)

Mounting: Standard Rack 17BXE

Weight: 200 g (0.44 lb)

PERFORMANCE in percentage of span

Accuracy: ± 1 % (at 23°C ± 10 °C or 73.4°F ± 18 °F)

Response time: ≤ 1 sec. (0 - 100 % ± 1 %)

Ripple: 0.5 %p-p max.

Line voltage effect: ± 0.1 % over voltage range

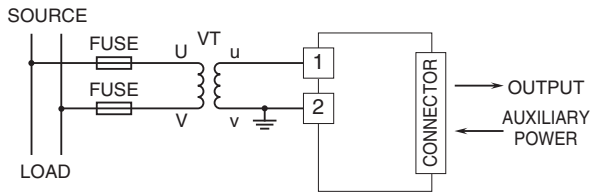
Insulation resistance: ≥ 100 M Ω with 500 V DC

Dielectric strength: 500 V AC @ 1 minute (output to auxiliary power)

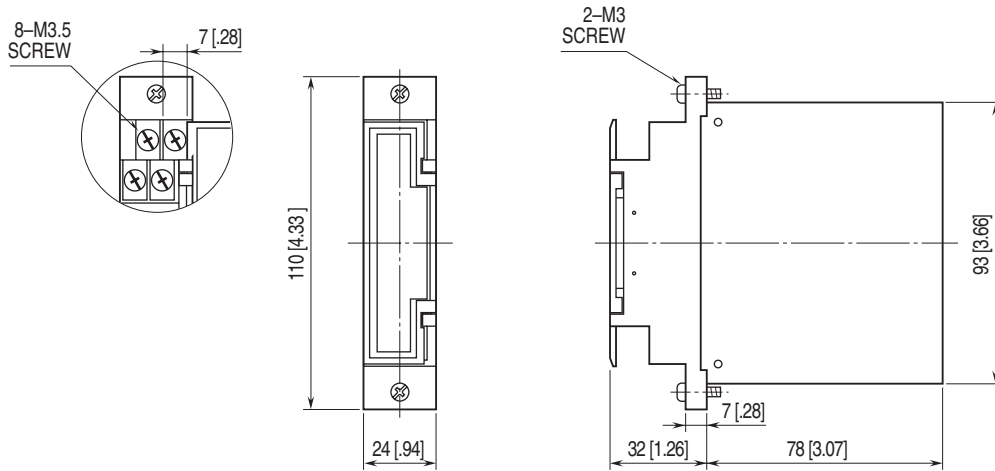
2000 V AC @ 1 minute (input to output or auxiliary power)

1500 V AC @1 minute (input or output or auxiliary power to ground)

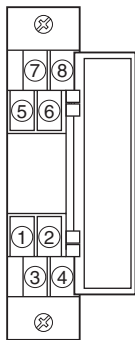
CONNECTION DIAGRAM



DIMENSIONS unit: mm (inch)



TERMINAL ASSIGNMENTS



Specifications are subject to change without notice.