MODEL: 18HZ

Rack-mounted DCS Signal Conditioners 18-RACK

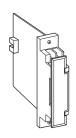
FREQUENCY TRANSDUCER

Functions & Features

- Providing two DC output signals in proportion to deviation (±5 Hz) from center frequency (50 Hz or 60 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: 18HZ-[1][2]66-R

ORDERING INFORMATION

• Code number: 18HZ-[1][2]66-R

Specify a code from below for each of [1] and [2].

(e.g. 18HZ-1166-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 1

Voltage

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

OUTPUT 2

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.)

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 1: Connector

Output 2: M3.5 screw terminals (torque 0.8 N·m)

and connector

Power input: Supplied from connector **Screw terminal**: Nickel-plated steel

Isolation: Input to output 1 to output 2 to power **Overrange output**: Approx. -10 to +120 % at 1 - 5 V

Zero adjustment: -5 to +5 % (front) Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

Operational range: 85 - 120 % of rating

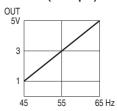
Overload capacity: 150 % of rating for 10 sec., 120 %

continuous

Input burden: Approx. 1 VA

OUTPUT SPECIFICATIONS

■ OPERATION DIAGRAM (example)



INSTALLATION

Current consumption: Approx. 60 mA

Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Standard Rack 18BXx or 18KBXx

Weight: 150 g (0.33 lb)

PERFORMANCE in percentage of span

Accuracy: ±1.0 %

Temp. coefficient: ± 0.1 %/°C (± 0.06 %/°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

MODEL: 18HZ

Insulation resistance: ≥ 100 M Ω with 500 V DC Dielectric strength: 2000 V AC @ 1 minute (input to output 1 or output 2 or power)

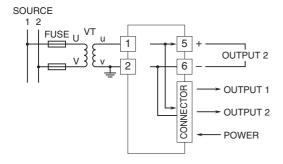
500 V AC @ 1 minute

(output 1 to output 2 to power)

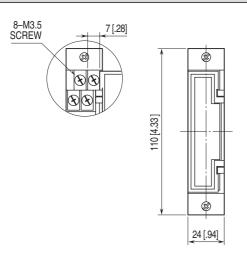
2000 V AC @1 minute

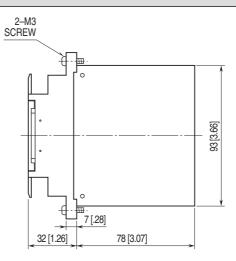
(input or output or power to ground)

CONNECTION DIAGRAM

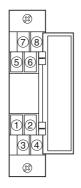


EXTERNAL DIMENSIONS unit: mm [inch]





TERMINAL ASSIGNMENTS



Specifications are subject to change without notice.