Rack-mounted DCS Signal Conditioners 18-RACK

TACHOGENERATOR CONVERTER

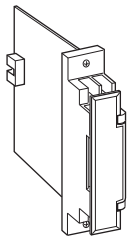
Functions & Features

• Converting an AC voltage from a tachogenerator (tachometer) into two standard process signals

• Second channel output available at the front terminals and at the Standard Rack connector

Typical Applications

• Measuring rotating or moving speed of multispeed motors, belt conveyers, metering pumps



MODEL: 18TG–[1]66–R

ORDERING INFORMATION

• Code number: 18TG-[1]66-R

Specify a code from below for [1]

(e.g. 18TG-166-R)

Special input range (For code U)

[1] INPUT

Voltage

1: 0 – 35 V AC (Input resistance 200 kΩ min.)

U: Specify voltage (0 % input must be 0 V.)

OUTPUT 1

Voltage

6: 1 – 5 V DC (Load resistance 2000 Ω min.)

OUTPUT 2

Voltage

6: 1 – 5 V DC (Load resistance 2000 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: 0 to 120 % at 1 – 5 V

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

Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

Input: 0 – 250 V AC

Minimum span: 50 mV

Input resistance: 200 kΩ minimum

Frequency: 100 Hz min., 1 kHz max. with 100 % input

INSTALLATION

Power consumption

•**DC**: Approx. 35 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 lbs)

PERFORMANCE in percentage of span

Accuracy: ±0.2 % (excluding ≤ 15 Hz)

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: 1500 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)

1500 V AC @ 1 minute

(input or output or power to ground)

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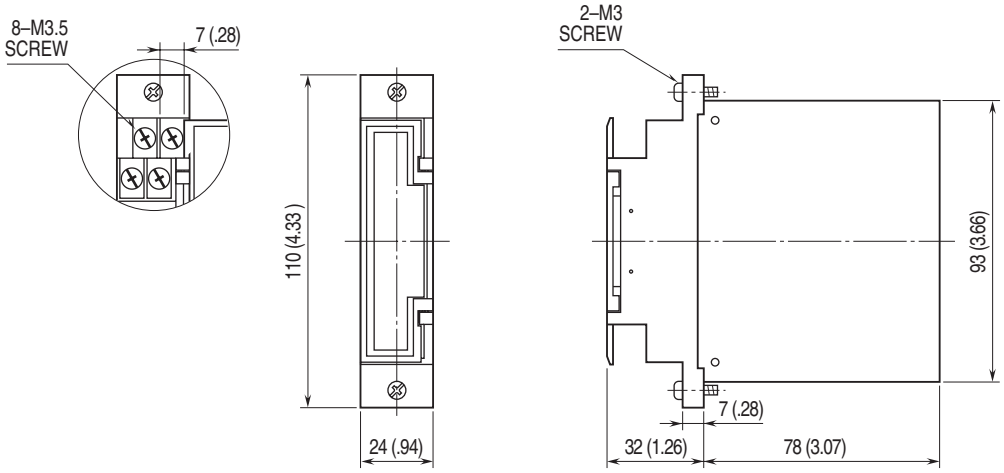
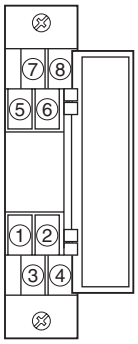
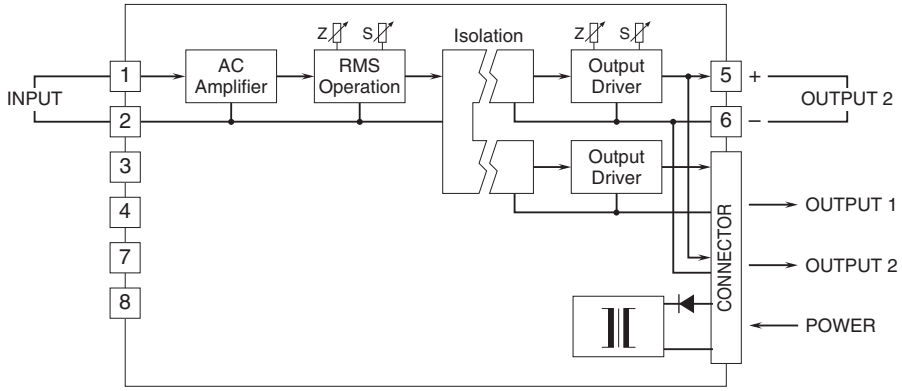
DIMENSIONS unit: mm (inch)



TERMINAL ASSIGNMENTS



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



⚠ Specifications are subject to change without notice.

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