MODEL: 18MS

Rack-mounted DCS Signal Conditioners 18-RACK

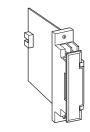
POTENTIOMETER CONVERTER

Functions & Features

- Providing two DC outputs proportional to a potentiometer or slidewire position input
- Constant voltage excitation allows use with pots with total resistances from 100 Ω 10 $k\Omega$ without affecting accuracy
- 50 % zero/span adjustments with minimal interaction
- Second channel output available at the front terminals and at the Standard Rack connector

Typical Applications

- Tank levels
- Positions



MODEL: 18MS-66-R

ORDERING INFORMATION

Code number: 18MS-66-R

INPUT POTENTIOMETER

Total resistance 100 Ω - 10 $k\Omega$

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**: Approx. -10 to +120 % at 1 - 5 V **Zero adjustment**: 0 - 50 % of total resistance (front) **Span adjustment**: 50 - 100 % of total resistance (front)

INPUT SPECIFICATIONS

Minimum span: 50 % of total resistance

Excitation: Approx. 0.2 V DC

INSTALLATION

Power consumptionDC: 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 lb)

PERFORMANCE in percentage of span

Accuracy: ±0.1 %

Temp. coefficient: ±0.015 %/°C (±0.008 %/°F)

Response time: ≤ 0.5 sec. (0 - 90 %)

Line voltage effect: ± 0.1 % over voltage range Insulation resistance: ≥ 100 M Ω with 500 V DC Dielectric strength: 1500 V AC @ 1 minute (input to output 1 or output 2 or power)

TEL: (02)2598-1199 E-mail: info@xintop.com FAX: (02)2596-2331 Website: www.xintop.com

500 V AC @ 1 minute

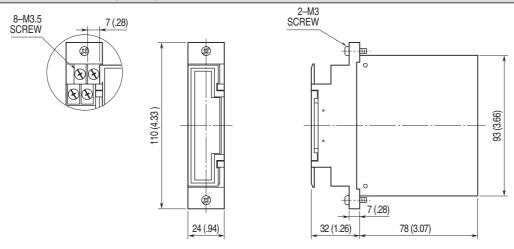
(output 1 to output 2 to power)

1500 V AC @ 1 minute

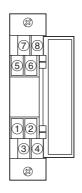
(input or output or power to ground)

MODEL: 18MS

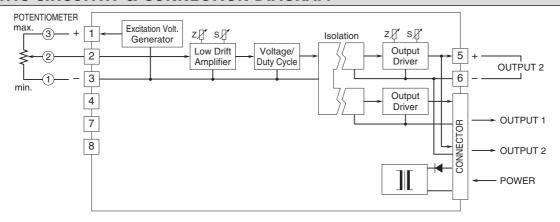
DIMENSIONS unit: mm (inch)



TERMINAL ASSIGNMENTS



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



 Λ

Specifications are subject to change without notice.

幸託有限公司

XIN TOP CORPORATION FAX: (02)2596-233

FAX: (02)2596-2331 Website: www.xintop.com