

Dual Channel Input/Output Isolators 15-RACK

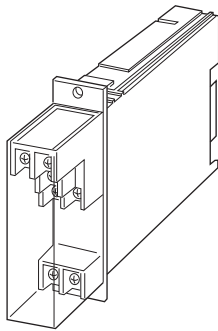
POTENTIOMETER CONVERTER

Functions & Features

- Providing a DC output proportional to a potentiometer or slidewire position input
- Constant voltage excitation allows use with pots with total resistances from 100 Ω - 10 k Ω without affecting accuracy
- 50 % zero/span adjustments with minimal interaction
- 2 channels available; accomplishing economical and space-saving multi-input processing

Typical Applications

- Tank levels
- Positions



MODEL: 15MS-6-R[1]

ORDERING INFORMATION

- Code number: 15MS-6-R[1]
Specify a code from below for [1].
(e.g. 15MS-6-R/Q)
- Specify the specification for option code /Q
(e.g. /C01)

INPUT POTENTIOMETER

Total resistance 100 Ω - 10 k Ω

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 \pm 10 %, ripple 10 %p-p max.)

[1] 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

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

Overrange output: Approx. -10 to +120 %

Zero adjustment: 0 - 50 % of total resistance (front)

Span adjustment: 50 - 100 % of total resistance (top)

INPUT SPECIFICATIONS

Minimum span: 50 % of total resistance

Excitation: Approx. 0.2 V DC

INSTALLATION

Current consumption: Approx. 30 mA

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

Operating humidity: 30 to 90 %RH (non-condensing)

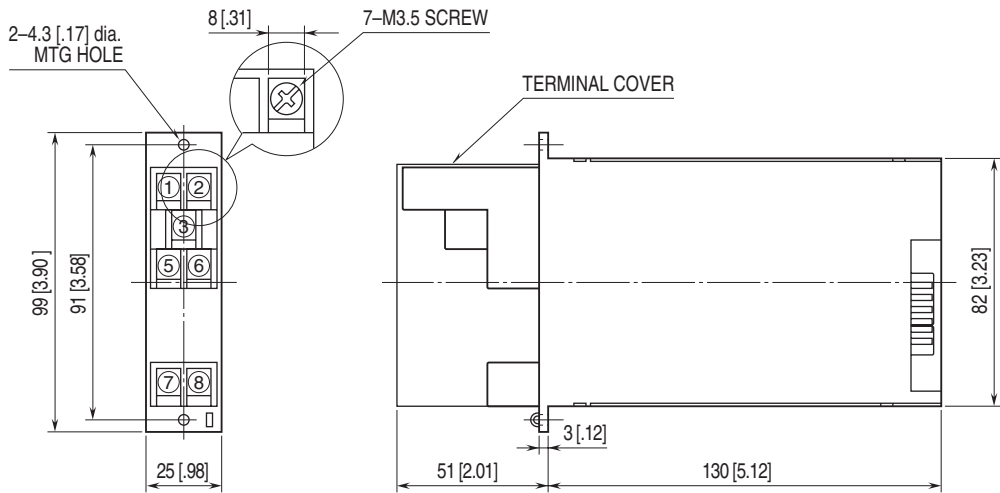
Mounting: Standard Rack 15BX

Weight: 180 g (0.40 lb)

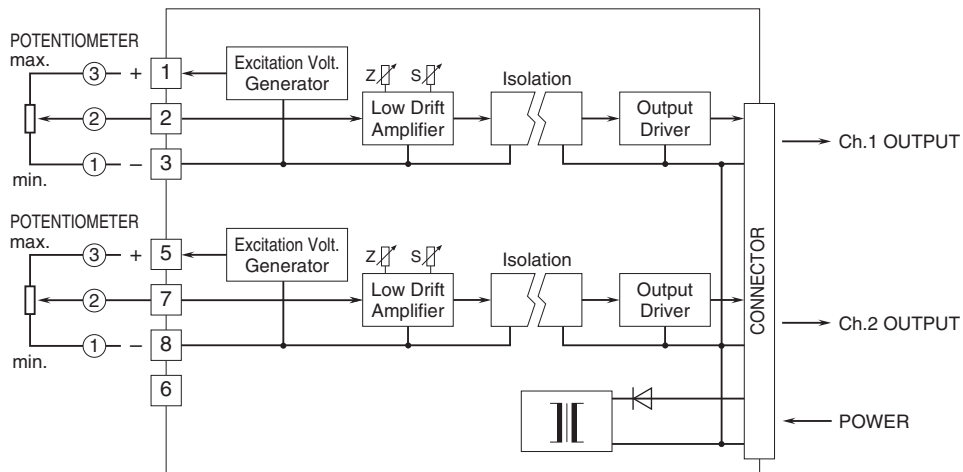
PERFORMANCE in percentage of span

- Accuracy: $\pm 0.1\%$
- Temp. coefficient: $\pm 0.015\%/^{\circ}\text{C}$ ($\pm 0.008\%/^{\circ}\text{F}$)
- Response time: ≤ 0.5 sec. (0 - 90 %)
- Line voltage effect: $\pm 0.2\%$ over voltage range
- Insulation resistance: $\geq 100\text{ M}\Omega$ with 500 V DC
- Dielectric strength: 500 V AC @ 1 minute
(input to output or power)
- 500 V AC @ 1 minute (ch.1 to ch.2 input)
- 500 V AC @ 1 minute (output to ground)

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.