Dual Channel Input/Output Isolators 15-RACK

OUTPUT ISOLATOR

(fast response)

Functions & Features

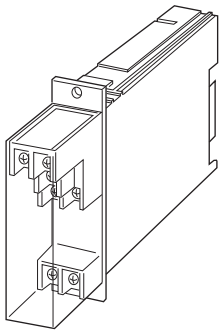
• Converting a DC input into an isolated standard process signal

• Input from the Standard Rack connector can be monitored at the front terminals

• 2 channels available; accomplishing economical and space-saving multi-output processing

Typical Applications

• Isolation between control room and field instrumentation



MODEL: 15YK–6[1]–R[2]

ORDERING INFORMATION

• Code number: 15YK-6[1]-R[2]
Specify a code from below for each [1] and [2].
(e.g. 15YK-66-R/Q)

• Specify the specification for option code /Q
(e.g. /C01)

INPUT

Voltage

6: 1 – 5 V DC (Input resistance 1 MΩ min.)

[1] OUTPUT

Current

A: 4 – 20 mA DC (Load resistance 600 Ω max.)

Voltage

6: 1 – 5 V DC (Load resistance 500 Ω min.)

POWER INPUT

DC Power

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

[2] OPTIONS

blank: none

/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to M-System's 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: Card-edge connector

Output, input monitor: M3.5 screw terminals (torque 0.8 N·m)

Power input: Supplied from card-edge connector

Screw terminal: Nickel-plated steel

Housing material: Flame-resistant resin (black)

Isolation: Input or output to power; ch.1 output to ch.2 output

Overrange output: Approx. -10 to +120 % at 1 – 5 V

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

Span adjustment: 95 to 105 % (top)

OUTPUT SPECIFICATIONS

With the input voltage code 3, 4, 5, 6 and current, the output goes below 0 % when the input is open.

INSTALLATION

Power consumption: Approx. 30 mA with voltage output; approx. 70 mA with current output

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

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

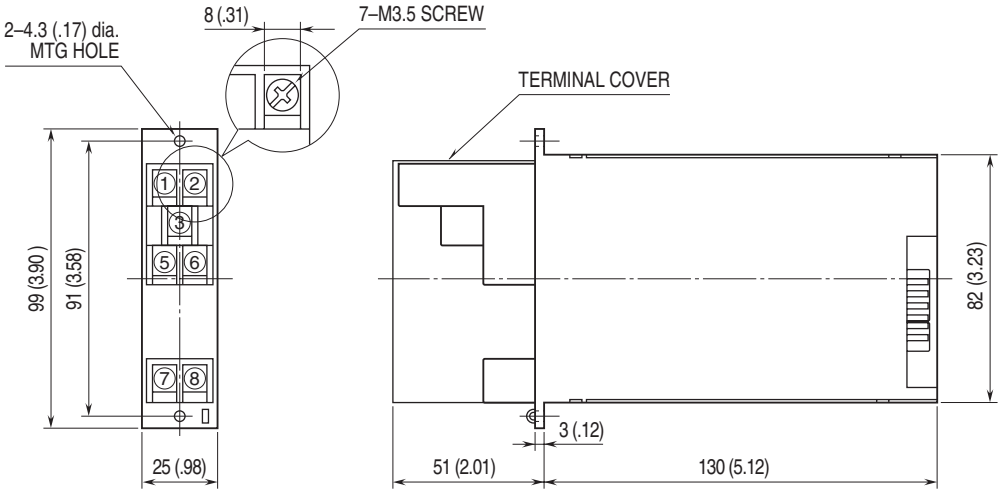
Mounting: Standard Rack 15BX

Weight: 200 g (0.44 lb)

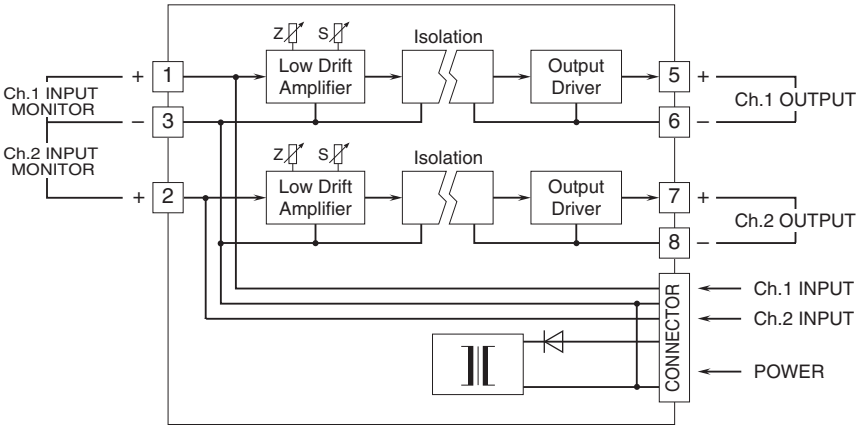
PERFORMANCE in percentage of span

Accuracy: ±0.1 %
Temp. coefficient: ±0.015 %/°C (±0.008 %/°F)
Response time: ≤ 25 msec. (0 – 90 %)
Line voltage effect: ±0.1 % over voltage range
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 500 V AC @ 1 minute
(input or power to output)
500 V AC @ 1 minute (ch.1 to ch.2 output)

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



⚠ Specifications are subject to change without notice.