

## Dual Channel Input/Output Isolators 15-RACK

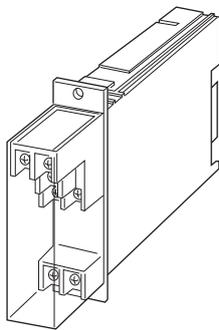
### OUTPUT ISOLATOR

#### 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: 15YS-6[1]-R[2]

#### ORDERING INFORMATION

- Code number: 15YS-6[1]-R[2]
- Specify a code from below for each of [1] and [2]. (e.g. 15YS-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 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:** 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. 50 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:  $\pm 0.1\%$

Temp. coefficient:  $\pm 0.015\%/^{\circ}\text{C}$  ( $\pm 0.008\%/^{\circ}\text{F}$ )

Response time:  $\leq 0.5$  sec. (0 - 90 %)

Line voltage effect:  $\pm 0.1\%$  over voltage range

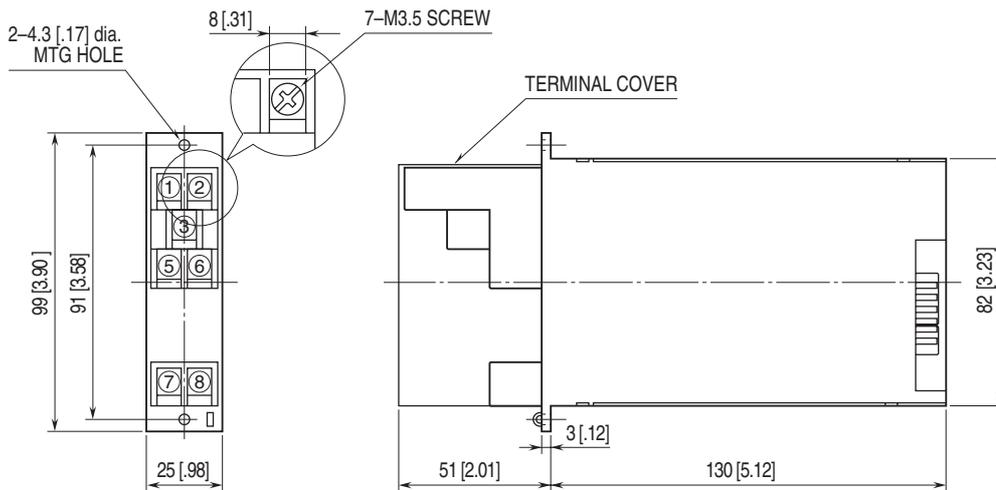
Insulation resistance:  $\geq 100\text{ M}\Omega$  with 500 V DC

Dielectric strength: 500 V AC @ 1 minute

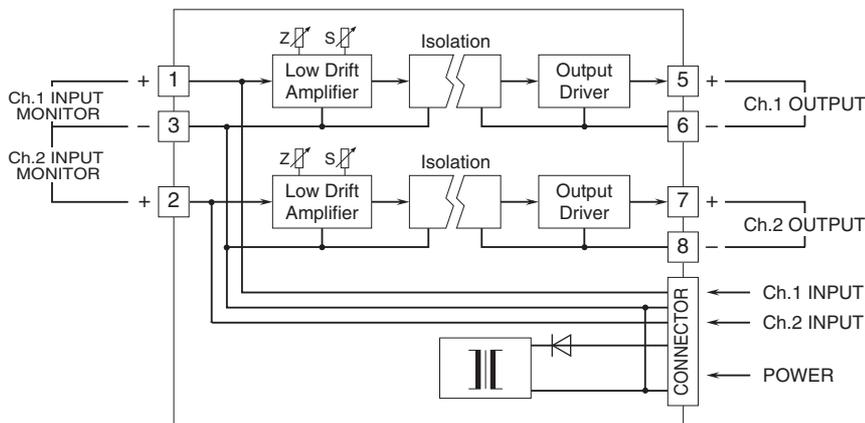
(input or power to output)

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.