MODEL: 18YS

Rack-mounted DCS Signal Conditioners 18-RACK

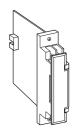
OUTPUT ISOLATOR

Functions & Features

- Converting a 1 5 V DC input into an isolated standard process signal
- Input from the Standard Rack connector can be monitored at the front terminals

Typical Applications

• Isolation between control room and field instrumentation



MODEL: 18YS-6[1]-R

ORDERING INFORMATION

 Code number: 18YS-6[1]-R
 Specify a code from below for [1]. (e.g. 18YS-66-R)

INPUT

Voltage

6: 1 – 5 V DC (Input resistance 1 M Ω 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.)

GENERAL SPECIFICATIONS

Construction: Rack-mounted; terminal access via screw terminals on the front and connector on the rear; terminal cover provided

Connection

Input: Connector

 $\begin{array}{l} \textbf{Input monitor} \hbox{: M3.5 screw terminals (torque 0.8 N\cdotm)} \\ \textbf{Output} \hbox{: M3.5 screw terminals (torque 0.8 N\cdotm)} \\ \end{array}$

Power input: Supplied from connector **Screw terminal:** Nickel-plated steel **Isolation:** Input to output to power

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

Zero adjustment: -5 to +5 % (front) Span adjustment: 95 to 105 % (front)

OUTPUT SPECIFICATIONS

The output goes below 0 % when the input is open.

INSTALLATION

Current consumption: Approx. 30 mA with voltage output

Approx. 50 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 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

(output to input or power)

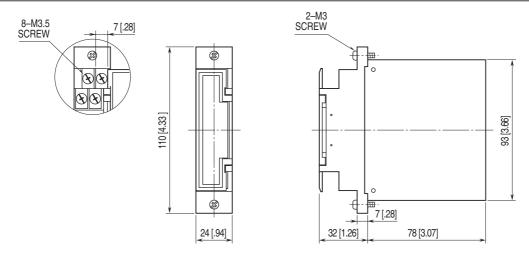
500 V AC @ 1 minute (input to power)

1500 V AC @ 1 minute

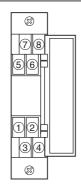
(input or output or power to ground)

MODEL: 18YS

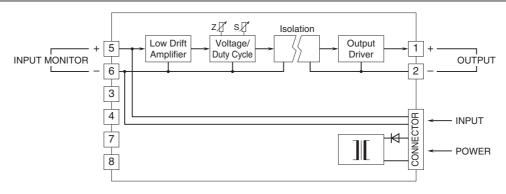
EXTERNAL DIMENSIONS unit: mm [inch]



TERMINAL ASSIGNMENTS



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



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Specifications are subject to change without notice.