MODFI: 18DY

# Rack-mounted DCS Signal Conditioners 18-RACK

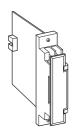
## **CURRENT LOOP SUPPLY**

#### **Functions & Features**

- Powering a 4 20 mA DC current loop
- Shortcircuit protection
- Usable as Isolator for 4 20 mA DC signals
- Second channel output available at the front terminals and at the Standard Rack connector
- Applicable to smart transmitters

#### Typical Applications

· Various 2-wire transmitters



MODEL: 18DY-A6[1]-R

## ORDERING INFORMATION

Code number: 18DY-A6[1]-R Specify a code from below for [1]

(e.g. 18DY-A66-R)

#### INPUT

## Current

**A**: 4 - 20 mA DC (Input resistance 276  $\Omega$ )

### **OUTPUT 1**

# **Voltage**

**6**: 1 - 5 V DC (Load resistance 2000  $\Omega$  min.)

# [1] OUTPUT 2

#### Current

A: 4 - 20 mA DC (Load resistance 600  $\Omega$  max.)

#### Voltage

**6**: 1 – 5 V DC (Load resistance 2000  $\Omega$  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: -5 to +5 % (front) Span adjustment: 95 to 105 % (front)

### SUPPLY OUTPUT

Output voltage: 24 - 28 V DC with no load

**Current rating**: ≤ 22 mA DC Shortcircuit Protection Current limited: 35 mA max. Protected time duration: No limit

## INPUT SPECIFICATIONS

■ DC Current: Input resistor incorporated

## **OUTPUT SPECIFICATIONS**

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

## **INSTALLATION**

# Power consumption

Approx. 65 mA with voltage output Approx. 95 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 lbs)

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# **PERFORMANCE** in percentage of span

Accuracy: ±0.1 %

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

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

Line voltage effect

Supply output:  $\pm 3$  % over voltage range Output signal:  $\pm 0.1$  % over voltage range Insulation resistance:  $\geq 100$  M $\Omega$  with 500 V DC Dielectric strength: 1500 V AC @ 1 minute (input to output 1 or output 2 or power)

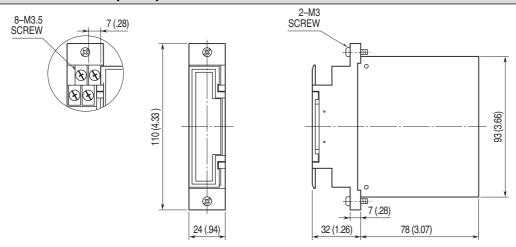
500 V AC @ 1 minute

(output 1 to output 2 to power)

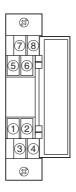
1500 V AC @ 1 minute

(input or output or power to ground)

# **DIMENSIONS unit: mm (inch)**

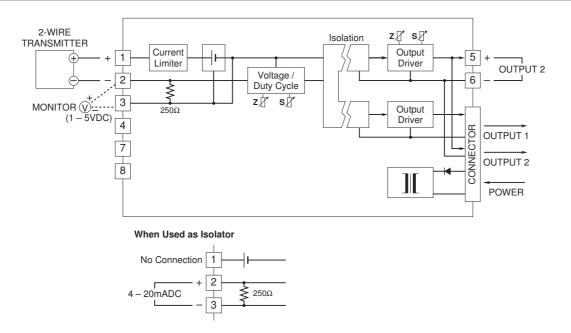


# **TERMINAL ASSIGNMENTS**



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# **SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



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Specifications are subject to change without notice.

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