MODEL: 18JDN

Rack-mounted DCS Signal Conditioners 18-RACK

CURRENT LOOP SUPPLY

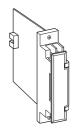
(with square root extractor)

Functions & Features

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

Typical Applications

· Various 2-wire transmitters



MODEL: 18JDN-A66-R

ORDERING INFORMATION

• Code number: 18JDN-A66-R

INPUT

Current

A: 4 - 20 mA DC (Input resistance 250 Ω)

OUTPUT 1

Voltage

6: 1 – 5 V DC (Load resistance 2000 Ω min.)

OUTPUT 2

Voltage

6: 1 – 5 V DC (Load resistance 2000 Ω min.)

POWER INPUT

DC Power

R: 24 V DC

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

RELATED PRODUCTS

- JX configurator connection kit (model: JXCON)
- Programming Unit (model: PU-2x)

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

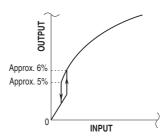
Power input: Supplied from connector **Screw terminal**: Nickel-plated steel

Isolation: Input to output 1 to output 2 to power **Adjustments**: Programming Unit (model: PU-2x); (For settings programable with JXCON, refer to its

instruction manual)Zero and span

Low-end cutout: Output is proportional to input when the

output is less than approx. 5 %



SUPPLY OUTPUT

Output voltage: 24 - 28 V DC with no load

Current rating: ≤ 22 mA DC
•Shortcircuit Protection

Current limited: Approx. 30

Current limited: Approx. 30 mA **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

•DC: Approx. 85 mA

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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MODEL: 18JDN

PERFORMANCE in percentage of span

Accuracy: ±0.25 %

Temp. coefficient: ± 0.03 %/°C (± 0.02 %/°F) Response time: ≤ 0.5 sec. (0 - 90 %)

Line voltage effect

Output signal: ± 0.1 % over voltage range Insulation resistance: ≥ 100 M Ω with 500 V DC Dielectric strength: 1500 V AC @ 1 minute (input to output 1 or output 2 or power)

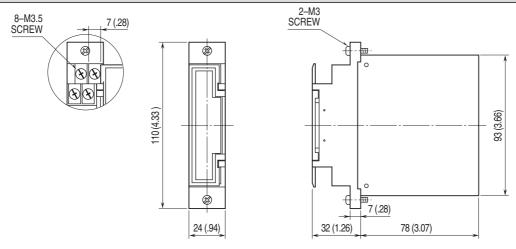
500 V AC @ 1 minute

(output 1 to output 2 to power)

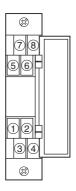
1500 V AC @ 1 minute

(input or output or power to ground)

DIMENSIONS unit: mm (inch)



TERMINAL ASSIGNMENTS



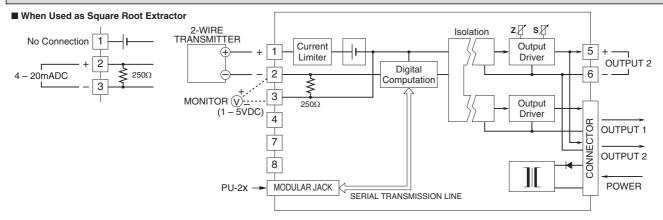
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SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.

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