MODEL: 18JN

Rack-mounted DCS Signal Conditioners 18-RACK

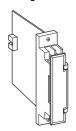
SQUARE ROOT EXTRACTOR

Functions & Features

- Providing two DC outputs proportional to the root of the input signal
- · Low-end cutout
- Second channel output available at the front terminals and at the Standard Rack connector

Typical Applications

· Converting differential pressure to flow



MODEL: 18JN-[1]66-R

ORDERING INFORMATION

• Code number: 18JN-[1]66-R Specify a code from below for [1] (e.g. 18JN-666-R)

[1] INPUT

Current

A: 4 - 20 mA DC (Input resistance 250 Ω) **H**: 10 - 50 mA DC (Input resistance 100 Ω)

Voltage

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

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); zero and

span, etc.

(Refer to the users manual of JXCON for the adjustments

configurable with JXCON.)

INPUT SPECIFICATIONS

■ DC Current: Input resistor incorporated

OUTPUT SPECIFICATIONS

The output turns to 0 % when the input is open.

INSTALLATION

Power consumptionDC: Approx. 60 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)

PERFORMANCE in percentage of span

Accuracy: ± 0.25 % (input 1 - 100 %) Temp. coefficient: ± 0.03 %/°C (± 0.02 %/°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 (input to output 1 or output 2 or power)

500 V AC @ 1 minute

(output 1 to output 2 to power)

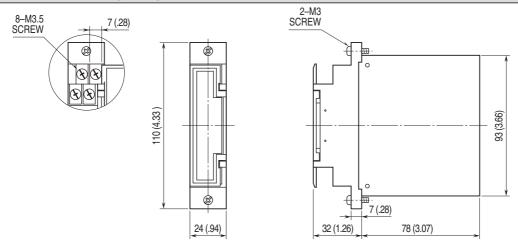
1500 V AC @ 1 minute

(input or output or power to ground)

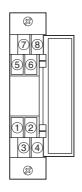


MODEL: 18JN

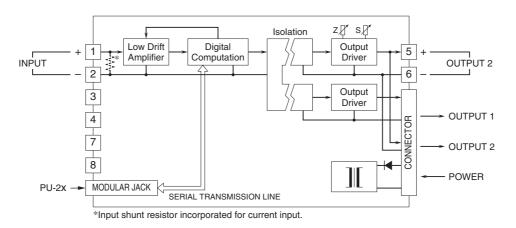
DIMENSIONS unit: mm (inch)



TERMINAL ASSIGNMENTS



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



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Specifications are subject to change without notice.

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