

Rack-mounted DCS Signal Conditioners 18-RACK

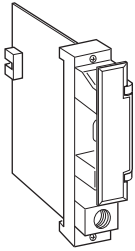
/A2: 0.2 – 1.0 bar

/A3: 3 – 15 psig

P/I TRANSDUCER

Functions & Features

- Converting a standard pneumatic signal into two proportional DC outputs
- Second channel output available at the front terminals and at the Standard Rack connector



MODEL: 18PV-[1]66-R[2]

ORDERING INFORMATION

- Code number: 18PV-[1]66-R[2]
- Specify a code from below for [1] and [2]
(e.g.18PV-266-R/A2S)

[1] PNEUMATIC CONNECTION

- 2: Rc 1/4"
7: 1/4" NPT fitting

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.)

[2] OPTIONS

Input
blank: 0.2 – 1.0 kgf/cm²
/A1S: 19.6 – 98.1 kPa
/A2S: 20 – 100 kPa
/A3S: 20.7 – 103.4 kPa

GENERAL SPECIFICATIONS

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

Connection

- Pneumatic:** Rc 1/4" or 1/4" NPT female
(torque ≤ 12 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:** 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)

INPUT SPECIFICATIONS

- Input
- 19.6 – 98.1 kPa, 0.2 – 1.0 kgf/cm²
20 – 100 kPa, 0.2 – 1.0 bar
20.7 – 103.4 kPa, 3 – 15 psig

INSTALLATION

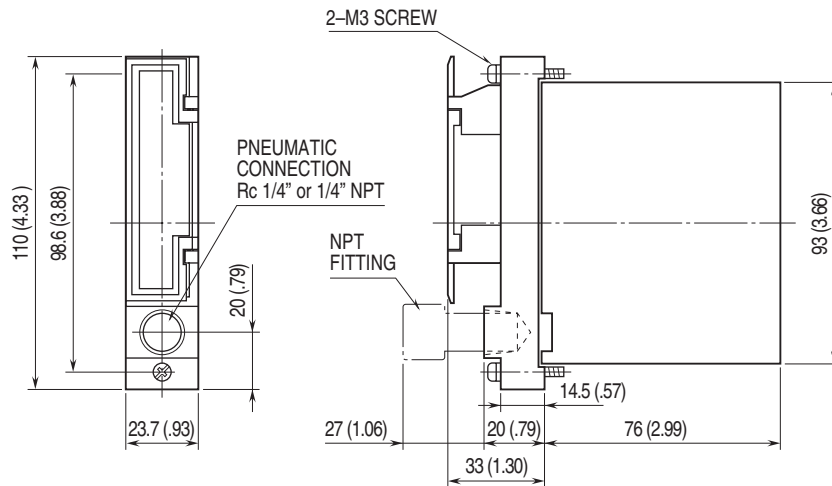
- Power consumption**
- DC: Approx. 35 mA
- Operating temperature:** -5 to +55°C (23 to 131°F)
- Operating humidity:** 30 to 90 %RH (non-condensing)
- Mounting:** Standard Rack 18BXx or 18KBXx
- Weight:** 250 g (0.55 lbs)

PERFORMANCE in percentage of span

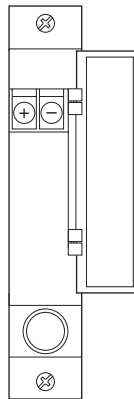
- Accuracy:** ±0.2 %
- Temp. coefficient:** ±0.03 %/°C (±0.02 %/°F)
- Response time:** ≤ 0.5 sec. (0 – 90 %)
- Permissible overrange:** 196 kPa (2.0 kgf/cm², 1.96 bar, 28 psig)
- Line voltage effect:** ±0.1 % over voltage range
- Insulation resistance:** ≥ 100 MΩ with 500 V DC
- Dielectric strength:** 500 V AC @ 1 minute
(output 1 to output 2 to power)
1500 V AC @ 1 minute (output or power to ground)



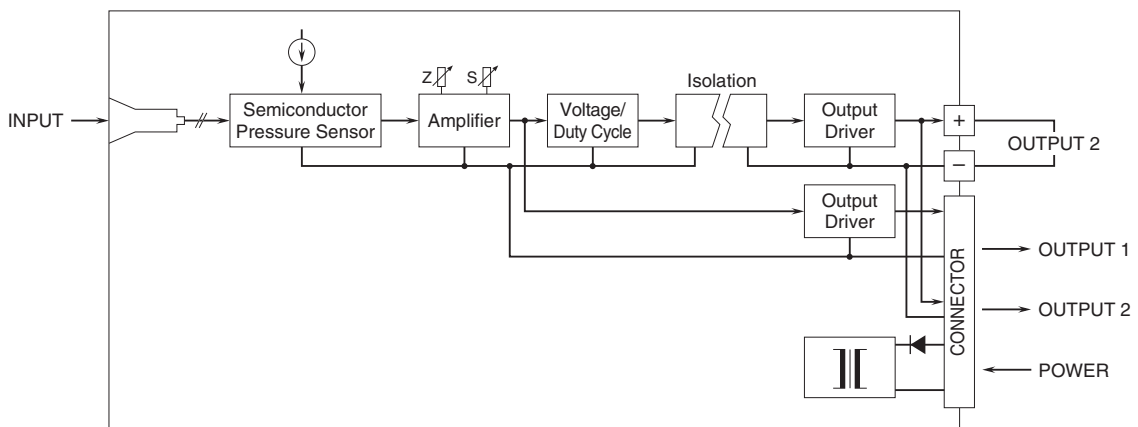
DIMENSIONS unit: mm (inch)




TERMINAL ASSIGNMENTS



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



 Specifications are subject to change without notice.