

**Space-Saving Two-wire Signal Conditioners *B-UNIT***

**P/I TRANSDUCER**

**MODEL BPV**

**MODEL & SUFFIX CODE SELECTION**

MODEL \_\_\_\_\_ **BPV-□□**  
 PNEUMATIC CONNECTION \_\_\_\_\_  
 2 : Rc 1/4"  
 5 : Rc 1/8" fitting  
 7 : 1/4" NPT fitting  
**OUTPUT**  
 4 – 20mA DC  
**SUPPLY VOLTAGE**  
 15 – 28V DC  
**OPTIONS** \_\_\_\_\_

**•Input**

(blank): 0.2 – 1.0 kgf/cm<sup>2</sup>  
**/A1S**: 19.6 – 98.1 kPa  
**/A2S**: 20 – 100 kPa  
**/A3S**: 20.7 – 103.4 kPa  
**/A2** : 0.2 – 1.0 bar  
**/A3** : 3 – 15 psig

**ORDERING INFORMATION**

Specify code number. (e.g. BPV-2/A2S)

**GENERAL SPECIFICATIONS**

**Construction:** plug-in

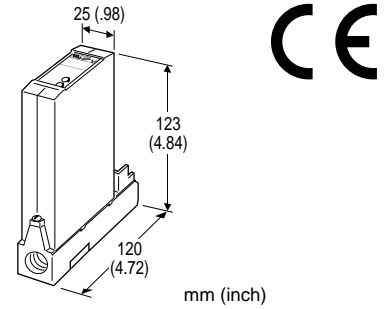
**Material**

**Housing:** flame-resistant resin (black)  
**Base socket:** die cast aluminium  
**Screw terminals:** nickel-plated steel;  
 torque 0.8 N·m

**Connection**

**Output:** M3.5 screw terminals  
**Pneumatic:** Rc 1/4", Rc 1/8" or 1/4" NPT female  
 (torque 12 N·m)

**Front adjustments:** zero and span; ±5%



**Functions & Features**

- Converting a standard pneumatic signal into a proportional 4 – 20mA DC output
- Monitor terminals
- High-density mounting
- CE marking

**Typical Applications**

- Converting a pneumatic system into a 4 – 20mA for indicating and controlling in DCS system

**INPUT & OUTPUT**

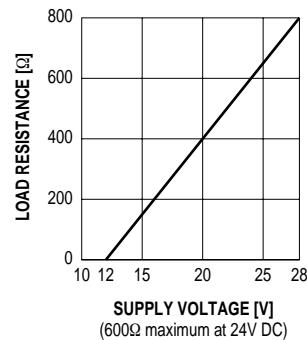
■ **INPUT:** 19.6 – 98.1 kPa, 0.2 – 1.0 kgf/cm<sup>2</sup>  
 20 – 100 kPa, 0.2 – 1.0 bar  
 20.7 – 103.4 kPa, 3 – 15 psig

■ **OUTPUT:** 4 – 20mA DC

**Load resistance vs. supply voltage:**

$$\text{Load Resistance } (\Omega) = \frac{\text{Supply Voltage (V)} - 12 \text{ (V)}}{0.02 \text{ (A)}}$$

(including leadwire resistance)



**INSTALLATION**

**Supply voltage:** 15 – 28V DC

**Operating temperature:** -10 to +60°C (14 to 140°F)

**Operating humidity:** 30 to 90% RH (non-condensing)

**Mounting:** surface; Standard Rack Mounting Frame (BX-16H) available

**Dimensions:** W25×H120×D123 mm (0.98"×4.72"×4.84")  
excluding fitting

**Weight:** 300 g (0.66 lbs)

**PERFORMANCE in percentage of span**

**Accuracy:** ±0.3%

**Temp. coefficient:** ±0.03%/°C (±0.02%/°F)

**Response time:** ≤0.5 second (0 – 90%)

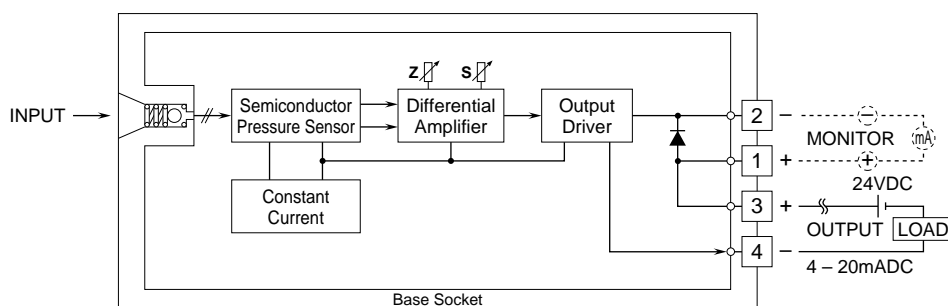
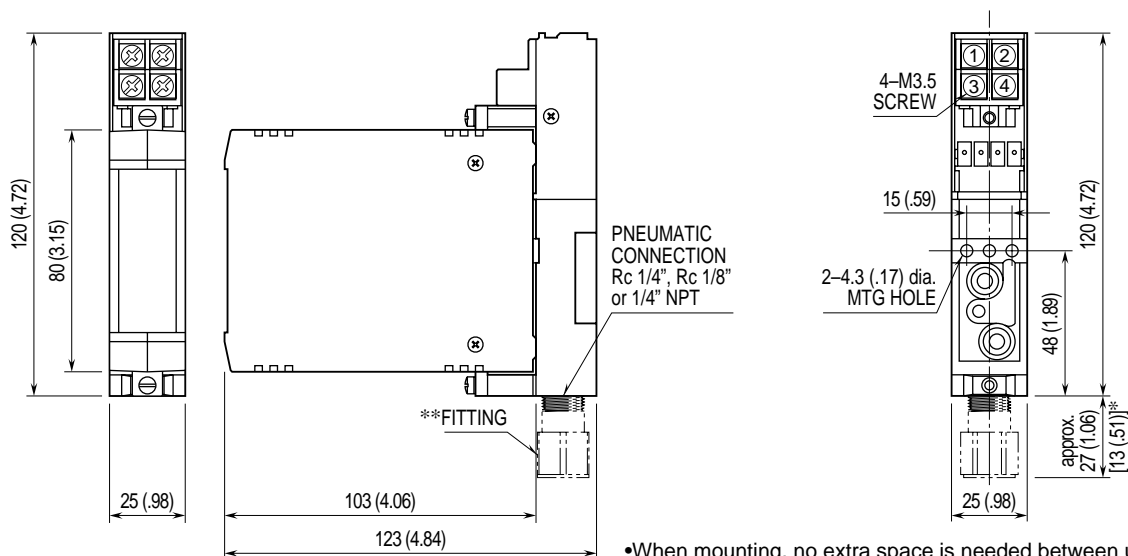
**Permissible overrange:** 196 kPa  
(2.0 kgf/cm<sup>2</sup>, 1.96 bar, 28 psig)

**STANDARDS & APPROVALS**

**CE conformity:** EMC Directive (2004/108/EC)

EMI EN 61000-6-4

EMS EN 61000-6-2

**SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM****EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENT mm (inch)**

•When mounting, no extra space is needed between units.

\* [ ] for Rc 1/8".

\*\*Fitting provided for Rc 1/8" or 1/4" NPT connection.