

# V10

## Features and Strengths

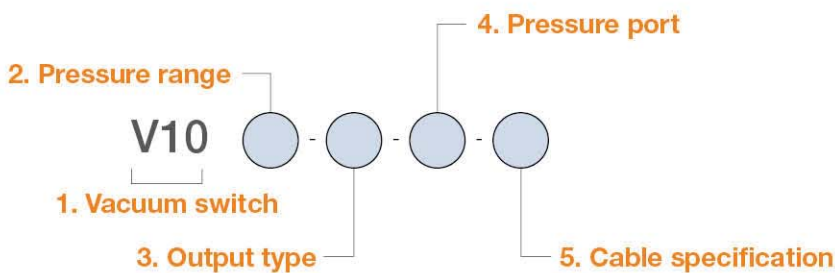
Converts an adjusted vacuum level to a digital output signal for pressure or vacuum  
 NC in vacuum range 0 ~ -100 kPa  
 NO in pressure range 0 ~ 300 kPa



## Specifications

| Model                           | V10  | V10P        |
|---------------------------------|--|-------------|
| Setting pressure range          | 0.0 ~ -101.3 kPa   | 0 ~ 0.6 MPa |
| Withstand pressure              | 0.6 MPa  | 1.5 MPa     |
| Fluid                           | Air, Non-corrosive / Non-flammable gas   |             |
| Power supply voltage            | 10.8 to 30V DC (include ripple voltage)  |             |
| Load current                    | 80 mA max.   |             |
| Internal voltage drop           | NPN / 0.8V, PNP / 0.8V   |             |
| Current consumption             | 10 mA max.   |             |
| Sensor type                     | NPN or PNP   |             |
| Output short circuit protection | Yes  |             |
| Setting method                  | Adjusting by VR  |             |
| Response time                   | Approx. 1 ms   |             |
| Repeatability                   | ≤±1% F.S.  |             |
| Hysteresis                      | 3% F.S. max.   |             |
| Indicator                       | Red LED turns ON   |             |
| Enclosure                       | IP 40  |             |
| Temperature characteristic      | ±3% F.S. of detected pressure (25°C) at temp. Range of 0 ~ 50°C (32 ~ 122°F)                     |             |
| Ambient temp. range             | Operation : 0 ~ 60°C (30 ~ 140°F), No condensation or freezing                                   |             |
| Ambient humidity. range         | Operation / Storage : 35 ~ 85% RH (No condensation)  |             |
| Vibration                       | Total amplitude 1.5mm, 10Hz- 55Hz- 10Hz scan for 1minute, two hours each direction of X, Y and Z |             |
| Piping method                   | Push-in tube or thread-in  |             |
| Lead wire                       | Oil-resistance cable, 3wires (0.18mm <sup>2</sup> ), 2.6mm, 3M                                   |             |
| Weight                          | Approx. *50g (with 3 meter lead wire)  |             |

## Build an Ordering No.



| 1. Vacuum switch       | Description                        | Ordering No. |
|------------------------|------------------------------------|--------------|
|                        | Vacuum switch V10                  | V10          |
| 2. Pressure range      | Description                        | Ordering No. |
|                        | Negative pressure (0 ~ -101.3 kPa) | Blank        |
|                        | Positive pressure (0 ~ 0.6 MPa)    | P            |
| 3. Output type         | Description                        | Ordering No. |
|                        | NPN                                | 01           |
|                        | PNP                                | 02           |
| 4. Pressure port       | Description                        | Ordering No. |
|                        | 1/8" PT, M5                        | F1           |
|                        | 1/8" NPT, M5                       | F2           |
|                        | M5                                 | F3           |
|                        | Ø4mm tube                          | F4           |
|                        | Ø6mm tube                          | F5           |
| 5. Cable specification | Description                        | Ordering No. |
|                        | Lead wire type (3m)                | Blank        |
|                        | M8-3pin male connector             | C            |