



Model No. HPM-\*\*-\*\*\*

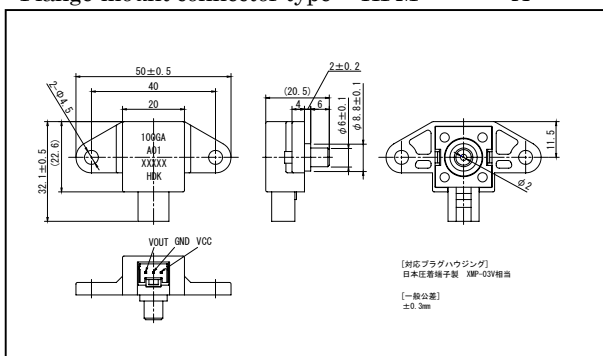
This pressure sensor, fabricated with advanced semiconductor micromachining technology, is highly sensitive and highly precise and meets a variety of customer needs. Custom product is also flexibly available to fit the needs.

## ■ Features

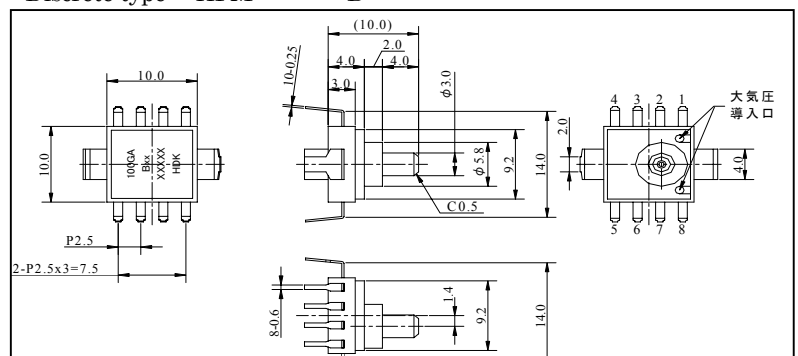
- Analog output, Digital output (frequency output) available
- Perform various digital compensation by built-in EEPROM, High precision • High stability
- Low current consumption: 1mA Max.
- Flange-mount connector type, Discrete type

## ■ Outline Dimension

Flange-mount connector type: HPM-\*\*-\*\*-A\*\*



Discrete type: HPM-\*\*-\*\*-B\*\*



## ■ Basic Specification

### 1. Absolute Maximum Rating

| Item                        | Rating |     | Unit | Remark   |
|-----------------------------|--------|-----|------|--|
|                             | MIN    | MAX |      |  |
| Storage Temperature Range   | -40    | 85  | °C   |  |
| Operating temperature Range | -10    | 60  | °C   |  |
| Operating Humidity Range    | 0      | 95  | %RH  |  |
| Operating Voltage Range     | -0.3   | 6.5 | V    | Base Vdd = 5[V]<br>Flange-mount type can operate at Vdd = 12[V]. |
| Measurable Pressure Range   | -90    | 980 | kPa  |  |

### 2. Electrical Characteristics (Vdd = 5[V], -10~60°C, -29.4~68.6kPa)

| Item                | HPM-100GD-A01  | HPM-100GA-A01   | HPM-100GA-B01   |
|---------------------|--|---|-----------------|
|                     | Output Form: Frequency   |   | Output Form: DC |
| Current Consumption | TYP 0.7 mA, MAX 1.0 mA   |   |                 |
| Output Function     | 26-[a×P【kPa】+29.4]<br>-Output at 29.4kPa = 26kHz<br>Output at 68.6kPa = 6kHz<br>a = 20/98【kHz/kPa】 | 0.5+[a×P【kPa】+29.4]<br>-Output at 29.4kPa = 0.5V<br>Output at 68.6kPa = 4.5V<br>a = 4/98【V/kPa】 |                 |
| Output Accuracy     | ±2% FS   |   |                 |

## ■ Model Designation

HPM - \*\*G\* - \*\*  
①      ②      ③      ④

- ① : Model No.
- ② : Full span pressure
- ③ : Output type (A : Analog, D : Digital)
- ④ : Shape, Custom spec No.  
(A: Flange-mount type, B: Discrete type)