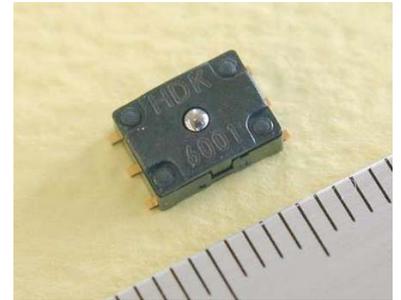




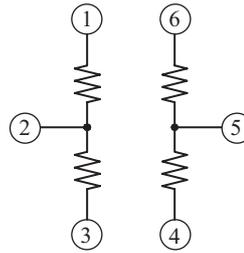
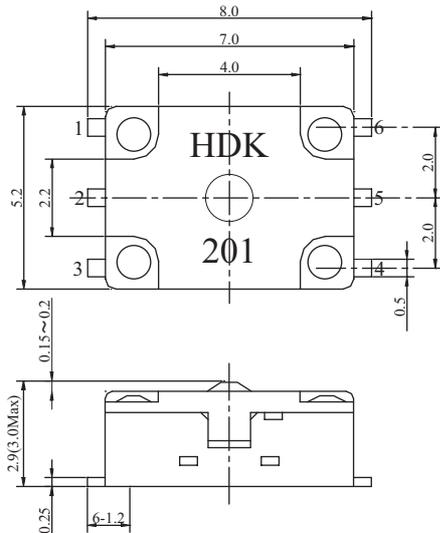
Utilizing long home-nurtured silicon micro-machining technology as core technology, we made it possible to precisely detect micro force less than 1N, which otherwise can not be achieved with conventional method.

## ■Features

- Small Size, Low Profile Package Dimension 7.0×5.2×2.9mm
- Capable of Micro-Force Detection with High Sensitivity, High Precision
- High durability, withstanding overforce 45N, Repetitive Force more than 1 million cycles



## ■Outline & Dimensions



### Terminal

|   |         |
|---|---------|
| ① | Vcc     |
| ② | +OUTPUT |
| ③ | GND     |
| ④ | GND     |
| ⑤ | -OUTPUT |
| ⑥ | Vcc     |

## ■Specifications

### 1. Maximum Absolute Ratings

| Item                  | Rating    | Unit | Note               |
|-----------------------|-----------|------|--------------------|
| Maximum Force         | 10        | N    |                    |
| Destructive Force     | 45        | N    | Load speed:1mm/min |
| Supply Voltage        | 5.5       | Vdc  |                    |
| Storage Temperature   | -30 ~ +85 | °C   |                    |
| Operating Temperature | -20 ~ +60 | °C   |                    |

### 2. Rating(Vcc=3.3Vdc, Ta=25°C)

| Item                              | Rating |      |      | Unit    | Note        |
|-----------------------------------|--------|------|------|---------|-------------|
|                                   | Min.   | Typ. | Max. |         |             |
| Operating Force Range             | 0      | -    | 5    | N       |             |
| Supply Voltage                    | -      | 3.3  | -    | Vdc     |             |
| Bridge Resistance                 | 7      | 9    | 11   | KΩ      |             |
| Offset Resistance                 | -10    | -    | 10   | mV      |             |
| Full Scale Span                   | -      | 100  | -    | mV      |             |
| Sensitivity                       | 18     | 20   | 22   | mV/N    |             |
| Linearity                         | -3     | -    | 3    | %FS     |             |
| Offset Temp. Characteristics      | -5     | -    | 5    | mV      | -20 ~ +60°C |
| Sensitivity Temp. Characteristics | -0.1   | -    | 0    | mV/N/°C |             |

## ■Model Designation

**HFD-500**

