

## Model 671: Brake Pressure Sensor

### FEATURES

- 0 to 174 psig; 0 to 1.2MPa; 0 to 12 bar
- 1.5%FS Total Accuracy
- MEMS technology
- Programmable ASIC to meet customer specifications
- Low part count enhances reliability
- Amplified and temperature compensated
- EMI protection



### DESCRIPTIONS

Model 671 incorporates MEMS technology and custom Application Specific Integrated Circuit (ASIC) technology in the design. It is specifically designed for tough automotive application. Based on the piezoresistive principle two pressure sensor elements transform two system pressures into electrical output signals proportionally to the pressure.

Model 671 is designed to perform in the under hood harsh environment such as temperature extremes, vibration, thermal and mechanical shock, and corrosive chemical.

### SENSOR SPECIFICATIONS

#### Electrical:

Supply Voltage	24 VDC
Supply Current	15 mA dc max per sensor
Output Type	ratio metric
Output Voltage	1.0 to 4.0 V dc at 5V dc excitation
Electrical connector	bayonet nut connector DIN 72 585, 6 pole with round contact

#### Operating Characteristics:

Range	0 to 174 psig 0 to 1.2 MPa 0 to 12 bar
Proof Pressure	16 bar (20 bar pressure peak for $t \leq 1$ min)
Burst Pressure	30 bar for $t \leq 10$ min
Total Accuracy	( $-20^{\circ}\text{C} \leq T \leq 60^{\circ}\text{C}$ ) 1.5%FS max

#### Environmental Effects:

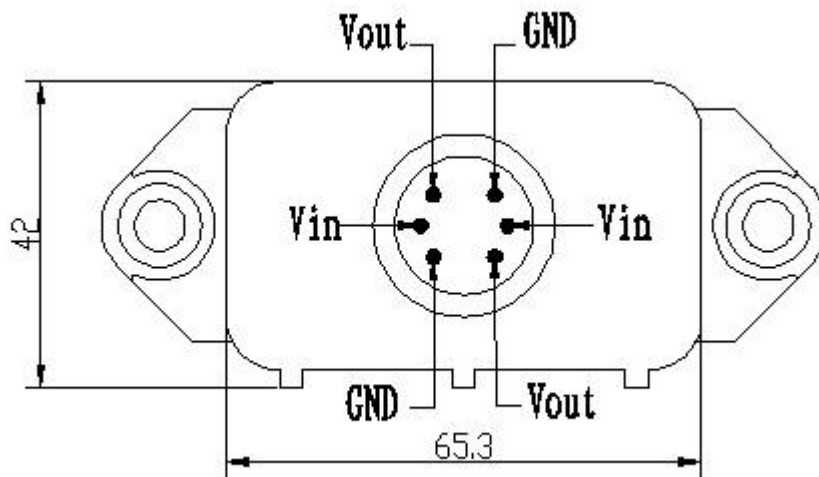
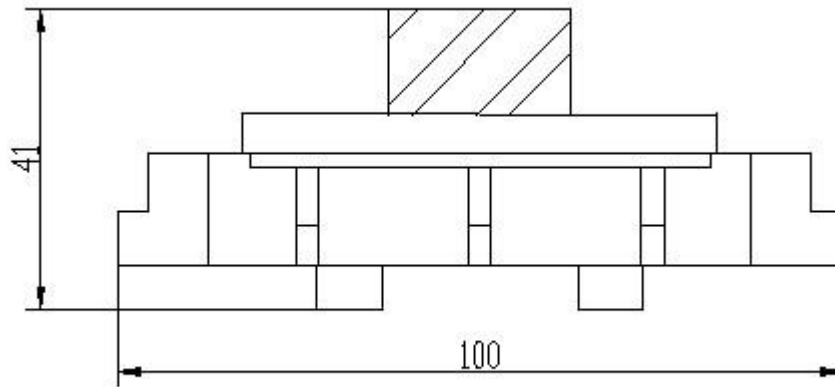
Compensated Temperature Range	$-40^{\circ}\text{C}$ to $+135^{\circ}\text{C}$
Storage Temperature Range	$-40^{\circ}\text{C}$ to $+150^{\circ}\text{C}$

#### Mechanical:

Pressure Port	2 pivots $\phi$ 9.4 mm for O-ring
Media Compatibility	Compressed air, aqueous and saline, contaminated with technical grease and oil, solid and gaseous combustion residue of oil (sulphurous hydrocarbon), parts of antifreezer and plasticizer
Protection Class	IP 69 and IP 67 with plugged-in connector

**Notes:**

1. Total accuracy is the RSS of non-linearity, hysteresis, non-repeatability and thermal errors.
2. Please contact us for special design to meet your requirements.



**APPLICATION:**

OEM 4410435041