

Model 631: Engine Fuel Pressure Sensor

FEATURES

- 0 to +450 psi G/A; 0 to +3 MPa G/A; 0 to +30 bar A/G
- 1.0%FS Total Accuracy
- MEMS technology
- Programmable ASIC to meet customer specifications
- Low part count enhances reliability
- Amplified and temperature compensated
- EMI protection



DESCRIPTIONS

Model 631 incorporates MEMS technology and custom Application Specific Integrated Circuit (ASIC) technology in the design. It is specifically designed for tough automotive application.

Model 631 is designed to perform in the underhood harsh environment such as temperature extremes, vibration, thermal and mechanical shock, and corrosive chemical.

SENSOR SPECIFICATIONS

Electrical:

Supply Voltage	5.0 ± 0.5VDC
Supply Current	10mA max
Maximum Output Current Source	1 mA
Output Impedance	10 ohms max
Output Type	radiometric
Output Voltage	0.5 to 4.5 V dc at 5VDC excitation

Operating Characteristics:

Range	0 to +450 psig/a; 0 to +3 MPaG/A; 0 to +30 barA/G
Proof Pressure	200%FS
Total Accuracy (%FS)	1.0%

Environmental Effects:

Compensated Temperature Range	-40°C to +150°C
Storage Temperature Range	-55°C to +165°C

Mechanical :

Protection Class	IP 55
Pressure Port	NPT 1/8

Media Compatibility

Media Compatible with Stainless Steel	(631)
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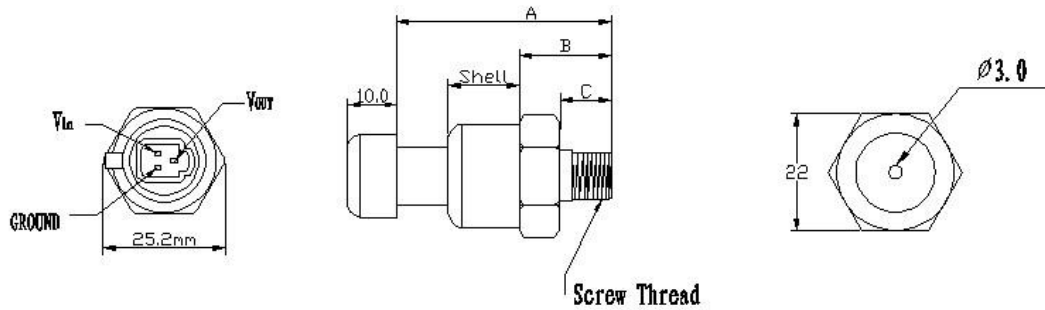
Ordering information

M 631 Output	connection	Pressure port	Pressure range	Pressure reference
3 = 0.5 - 4.5V X=Special output	4 = Packard Metripak XM = Cable X = Special Connector	2 = 1/4 BSP 3 = 1/4 NPT 4 = 1/8 NPT X=Special Port	XXX Bar	A = Absolute G = Gauge

Example: M631-3-2M-2-005 B-A = 5 V power with 0.5 to 4.5 Vout (ratiometric) and 2 ft cable. 1/4 NPT pressure port rated at 5Bar range.

Notes:

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



Screw Thread		A	B	C
A1/8-27NPT	Shel19.3	30.3	21.5	12
	Shel18.5	55.0	30.3	16.2