# KOLEKTOR Sentronics Break Backback

*ms18c ''monolit sensor''*® Temperature Compensated O.E.M. PRESSURE SENSOR

## ◆ Technology : Thick Film Strain Gage On Ceramic

Excellent long term stability Efficient temperature compensation Operating temperature range – 40°C to + 135°C High reliability level

The ms18c "monolit sensor" ( $\mathbb{B}$  is an **ideal Pressure sensing element** ready to be integrated inside an housing or directly mounted on board a machine. It is **fully temperature compensated** and guarantees a residual temperature effect inside the wide operating temperature range within  $\pm 0.05$  % FS /°C.

This feature results in a very stable sensor under very harsh conditions.

The  $Al_2O_3$  ceramic substrate ensures an excellent chemical resistance against corrosion of many aggressive media, like solvents and acids. The ms18c provides a typical 2mV/V-3 mV/V output level allowing a very easy signal conditioning.

- Large volume, High performance, Low cost O.E.M. applications
- Wide pressure measuring range, up to 600 bar
- Direct contact with aggressive media
- Easy integration on board industrial machines and equipments

### 18 mm Diameter 0...2 to 0...600 bar Gage/Relative Pressure

# Large volume OEM applications All aggressive media (\*)



¤ Scale 1:1 ¤



Main Applications : Pneumatic, hydraulic, medical equipments, air compressors, refrigeration systems, domestic appliances, battery powered instruments ...

#### Mechanical specification :

MODEL	Rated Range (bar)	Burst Pressure (bar)	Full Scale Output Signal (mV/V)
			Min. / Max.
<ul> <li>ms18c – 2</li> </ul>	02	5	1.6 / 4.2
<ul> <li>ms18c – 5</li> </ul>	05	12.5	1.6 / 4.2
<ul> <li>ms18c – 10</li> </ul>	010	25	2.3 / 4.7
<ul> <li>ms18c – 20</li> </ul>	020	50	2.4 / 4.8
<ul> <li>ms18c – 30</li> </ul>	030	60	2.9 / 4.9
<ul> <li>ms18c – 50</li> </ul>	050	125	2.4 / 4.4
<ul> <li>ms18c – 100</li> </ul>	0100	200	2.0 / 3.6
<ul> <li>ms18c – 200</li> </ul>	0200	400	1.6 / 2.8
<ul> <li>ms18c – 400</li> </ul>	0400	600	1.6 / 2.8
<ul> <li>ms18c – 600</li> </ul>	0600	800	1.6 / 2.8

Combined Error (Non-Linearity + Hysteresis)<sup>1</sup>

Non-Repeatability<sup>1</sup>

 $≤ \pm 0.3\%$  FS [Terminal based] for all the ranges except 2 bar  $≤ \pm 0.5\%$  FS [Terminal based ] for 2 bar range  $≤ \pm 0.1\%$  FS

(\*) Except hydrofluoric acid

<sup>1</sup>According to IEC 61298-2

Specification subject to change without prior notice Specification subject to change without prior notice



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