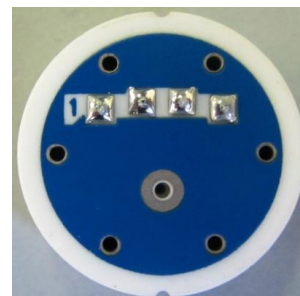


**FLUSH CERAMIC PRESSURE SENSOR**  
**LC 18 Model**  
**LOW RANGE – HIGH OVERPRESSURE**

◆ Technology : **Thick Film Strain Gage On Ceramic**  
**Absolute and Gage Pressure**  
**Membrane material: Al<sub>2</sub>O<sub>3</sub> 96%**  
**High overpressure resistance**  
**Operating temperature range - 40 up to + 135°C**

**18 mm Diameter**  
**0... 0.25 to 0...1 bar**

**LC18**



**Scale 2:1**

The LC18 sensors are fully **Temperature Compensated**.  
 The ceramic diaphragm, **inert and chemically neutral**,  
 can be in direct contact with all fluids, even very aggressive,  
 without additional separator device.

**Mechanical specification:**

MODEL	Rated range		Full Scale Output Signal		Overload pressure	Burst pressure
	kPa	Bar	Min mV/V	Max mV/V		
<b>LC18-253</b>	0...25	0.....0.25	1.5	3.0	3x	10x
<b>LC18-403</b>	0...40	0.....0.4	1.5	3.0	3x	10x
<b>LC18-603</b>	0...60	0.....0.6	2.0	4.0	3x	10x
<b>LC18-104</b>	0...100	0.....1.0	2.2	4.4	3x	8x

On board NTC temperature probe available on demand

Combined Error (Linearity + Hysteresis)  
 Repeatability

≤ ± 0.5% FSO [Terminal based]  
 ≤ ± 0.1% FSO

**RoHS Compliant**  
**Directive 2002/95/EC**

**FLUSH CERAMIC PRESSURE SENSOR**  
**LC 18 Model**  
**LOW RANGE – HIGH OVERPRESSURE**

**(Continued)**

**Electrical specification:**

▣ **PRESSURE**

- |   |                         |
|---|-------------------------|
| • Bridge Excitation Voltage                   | 2.5...30 Vdc            |
| • Input & Output Impedance                    | 11 K $\Omega$ $\pm$ 30% |
| • Initial zero unbalance                      | 0.1... 0.3 mV/V *       |
| • Zero point Long Term Drift 1 year @ 25°C    | < 0.2% FSO              |
| • Zero point High Temp Drift 1000 hrs @ 150°C | < 1% FSO                |

(\*) other values available on request

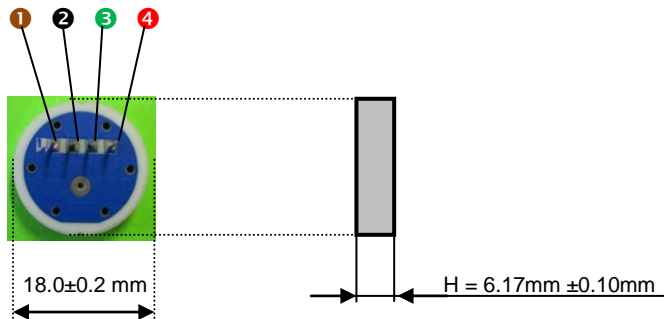
**Environmental specification:**

- |   |  |
|---|--|
| • Material in contact with fluid              | Alumina Al <sub>2</sub> O <sub>3</sub> – 96% |
| • Operating Temperature Range                 | - 40 up to + 135°C                           |
| • Residual Temperature Effect (Zero and Span) | $\leq \pm 0.04\%$ FSO/ °C                    |
| • Humidity range                              | < 95%RH (no condensation) **                 |

(\*\*) additional coating available on request

**Electrical Wiring:**

- ① : - Output
- ② : - Excitation
- ③ : + Output
- ④ : + Excitation



◆ **ORDERING CODE :**      **LC18 - xxx - x - x - x**

Range Code (See table below) ———— ↑

Pressure ———— ↑

- A (Absolute - Only 1 bar)
- R (Relative/Gage)

Additional coating:

- 0 no coating
- 1 silicone protection

Electrical connection:

- 0 tinned pads
- 1 male pins, height ~8.5mm

Code 253 => FS: 0... 0.25 bar
Code 403 => FS: 0... 0.40 bar
Code 603 => FS: 0... 0.60 bar
Code 104 => FS: 0... 1.00 bar