

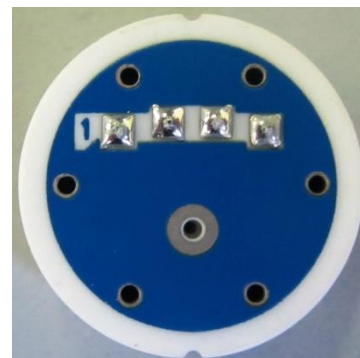
FLUSH CERAMIC PRESSURE SENSOR
LC 18 Model
LOW RANGE – HIGH OVERPRESSURE

◆ Technology : **Thick Film Strain Gage On Ceramic**

18 mm Diameter
Absolute and Gage pressure
0...0.25 to 0...1 bar

Minimum pressure range –0...250 mbar
Membrane material: Al₂O₃ 96%
High overpressure resistance
Operating temperature range - 40 up to + 135°C

LC18



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		
LC18-253	0...25	0.....0.25	1.5	3.0	3x	10x
LC18-403	0...40	0.....0.4	1.5	3.0	3x	10x
LC18-603	0...60	0.....0.6	2.0	4.0	3x	10x
LC18-104	0...100	0.....1.0	2.2	4.4	3x	8x

On board NTC temperature probe available on demand and with MOQ

Combined Error (Linearity + Hysteresis) ≤ ± 0.6% FSO [Terminal based]
 Repeatability ≤ ± 0.1% FSO

**RoHS 2
Compliant**

FLUSH CERAMIC PRESSURE SENSOR
LC 18 Model
(Continued)

Electrical specification:

▣ PRESSURE

- | | |
|---|----------------|
| • Bridge Excitation Voltage | 2.5...30 Vdc |
| • Input & Output Impedance | 11 KΩ ± 30% |
| • Initial zero unbalance | ≤ ± 0.2 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

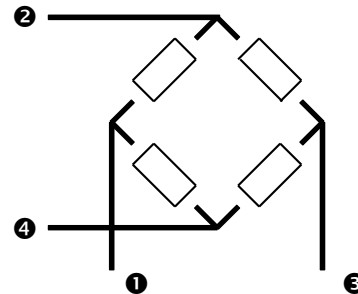
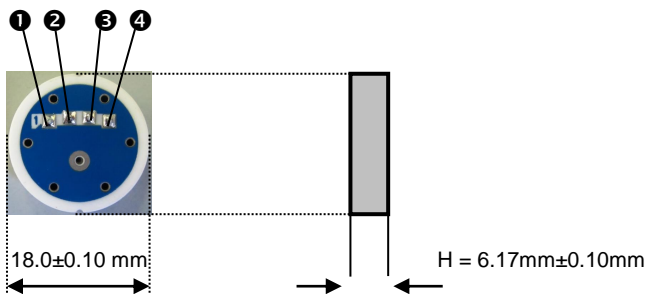
Environmental specification:

- | | |
|---|--|
| • Material in contact with fluid | Alumina Al ₂ O ₃ – 96% |
| • Operating Temperature Range | - 40 up to + 135°C |
| • Residual Temperature Effect (Zero and Span) | ≤ ± 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**

Model (LCS18 or LCST18) ↑ ↑ ↑ ↑

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 h=8.5mm

Code 253 => Range: 0... 25 kPa (250 mbar / 3.625 psi)
Code 403 => Range: 0... 40 kPa (400 mbar / 5.801 psi)
Code 603 => Range: 0... 60 kPa (600 mbar / 8.702 psi)
Code 104 => Range: 0...100 kPa (1,00 bar / 14.504 psi)