

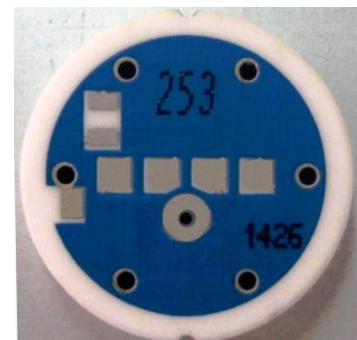
FLUSH CERAMIC PRESSURE SENSOR
LCS 18 & LCST18 Models
LOW RANGE – HIGH OVERPRESSURE

◆ Technology : **Thick Film Strain Gage On Ceramic**
+ Pt 1000 Platinum Probe

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

Dual (P + T) simultaneous measurements (LCST18 Model)
Membrane material: Al₂O₃ 96%
High overpressure resistance
Operating temperature range - 40 up to + 135°C

LCS18



The LCS18 sensors are fully **Temperature Compensated**.
 The LCST18 Model features a **Pt 1000 Platinum Probe** which gives an accurate Temperature measurement, allowing a perfect control of the fluid process, whilst the LCS18 performs a single Pressure measurement.
 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		
LCS18-253	0...25	0.....0.25	1.5	3.0	3x	10x
LCS18-403	0...40	0.....0.4	1.5	3.0	3x	10x
LCS18-603	0...60	0.....0.6	2.0	4.0	3x	10x
LCS18-104	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



Specification subject to change without prior notice

May 2020 Issue

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(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

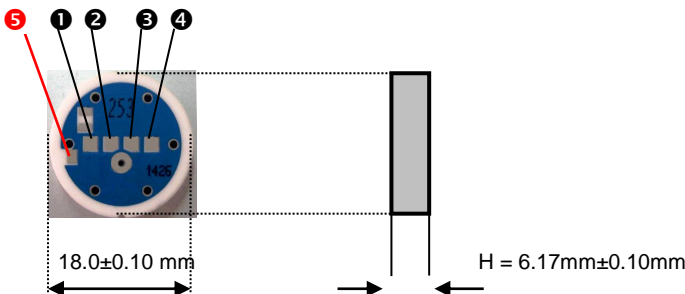
▣ **TEMPERATURE (LCST18 Model only)**

- Pt 1000 Probe 1000 Ω at 0 °C
- Class B
- Sensitivity Coefficient + 3850 ppm / °C
- Norms Conformity to IEC 751 / EN 60751

Environmental specification:

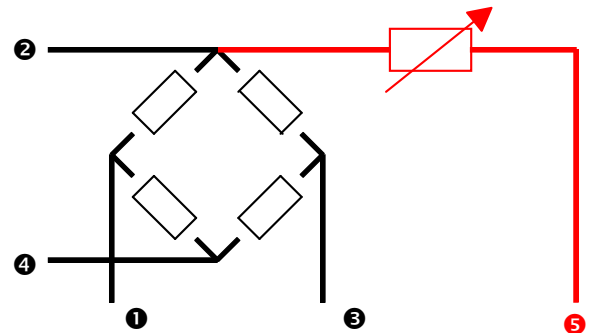
- Material in contact with fluid Alumina Al₂O₃ – 96%
- Operating Temperature Range - 40 up to + 135°C
- Residual Temperature Effect (Zero and Span) ≤ ± 0.04% FSO/ °C
- Humidity range < 95%RH (no condensation) **

** additional coating available on request



Electrical Wiring:

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



◆ **ORDERING CODE :** **LCS18 - 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)

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