



Out of Liquid Thermal Mass Flow Sensor

Optimal for various “out of liquid”-
flow applications

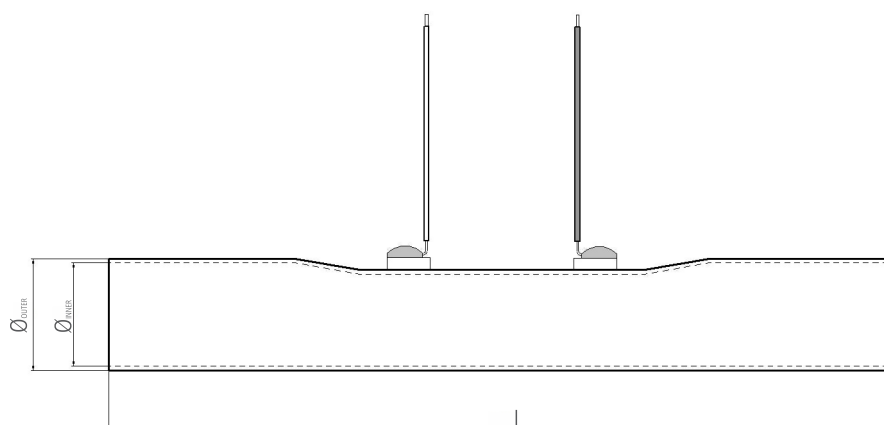


INNOVATIVE SENSOR TECHNOLOGY

Benefits & Characteristics

- Suitable for aggressive liquids
- No contact between sensor and liquid
- High chemical resistance
- Simple flow switches possible

Illustration¹⁾

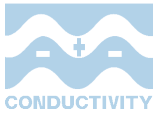


1) For actual size, see dimensions

Technical Data

Tube dimensions (L x Ø_OUTER (x Ø_INNER) in mm):*	40 x 4 (x 3.8)
Operating temperature range:	-50 °C to +180 °C
Characteristics curve (TCR):	3850 ppm/K
Accuracy:	DIN EN 60751 (class C)
Sensor wire:*	Cu/Ag, stranded wire, PTFE insulated, AWG 30
Heater:*	$R_H(0\text{ °C}) = 50\ \Omega \pm 1\ \%$
Temperature sensor:*	$R_s(0\text{ °C}) = 1000\ \Omega \pm 1\ \%$
Sensor dimensions (L x W x H x LW in mm):	2.3 (±0.2) x 2 (±0.2) x 1.3 (±0.3) x 50 (±3)
Tube material:*	Stainless steel
Temperature dependency of resistivity (according to DIN 60751):	$R(t) = R_0 (1 + \text{TCR} \times T)$

* Customer specific alternatives available



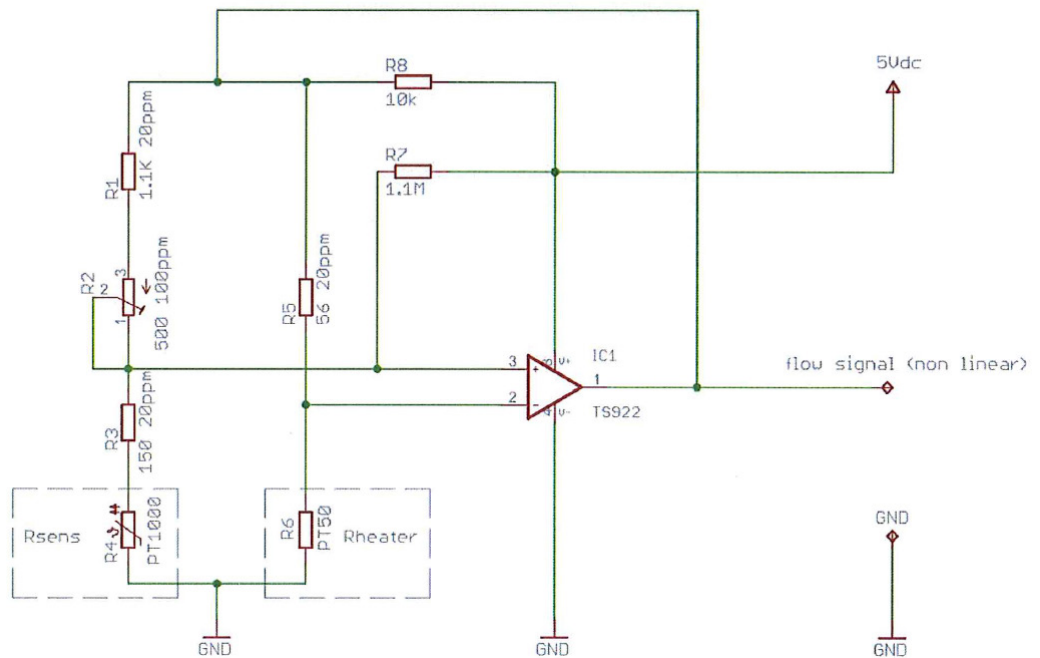
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Circuit Example



Order Information

Order code

P1K0/050.232.2K.C.050.M.U.S

310.00819

Additional Electronics

Document name:

Module:

DFOOL_Demo_Module_E



INNOVATIVE SENSOR TECHNOLOGY

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