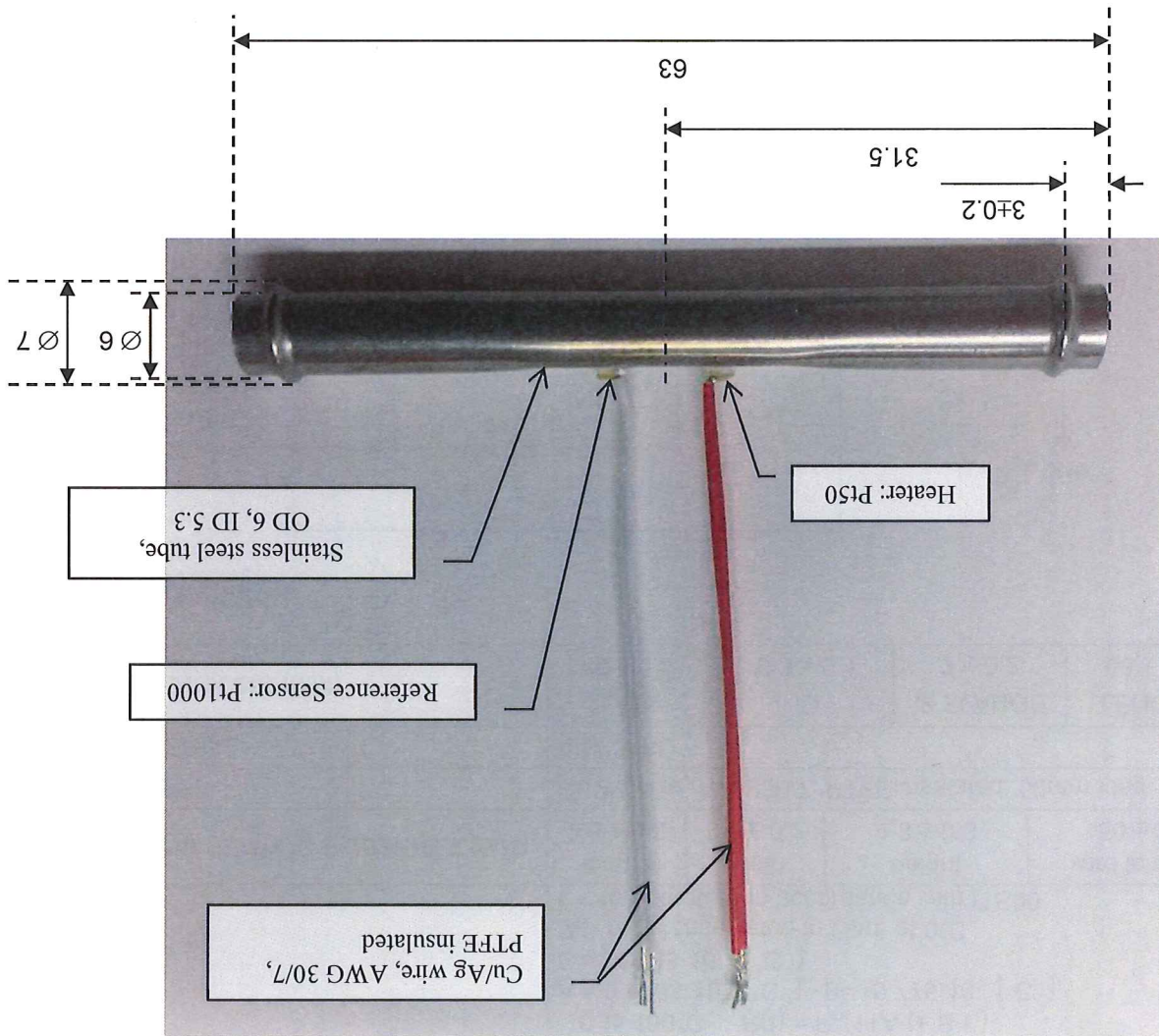




Preliminary

IST AG	Out of Liquid Sensor		
Drawing No.	Sensor Type	Rev.	Date
Z1298.14.03 en	P1K0/050.232.2K.C.050.M.U.S	-	05.03.2014
	Order no.: 310.00605		1/2

Dimensions [mm]:



OS	OS Manager	A. Polakova	<i>A. Polakova</i>	17.03.2014
APPROVED	R&D Manager	F. Krogmann	<i>F. Krogmann</i>	17.03.2014
DRAWN	R&D	F. Klammerstein	<i>F. Klammerstein</i>	17.03.2014
	Title	Name	Signature	Date

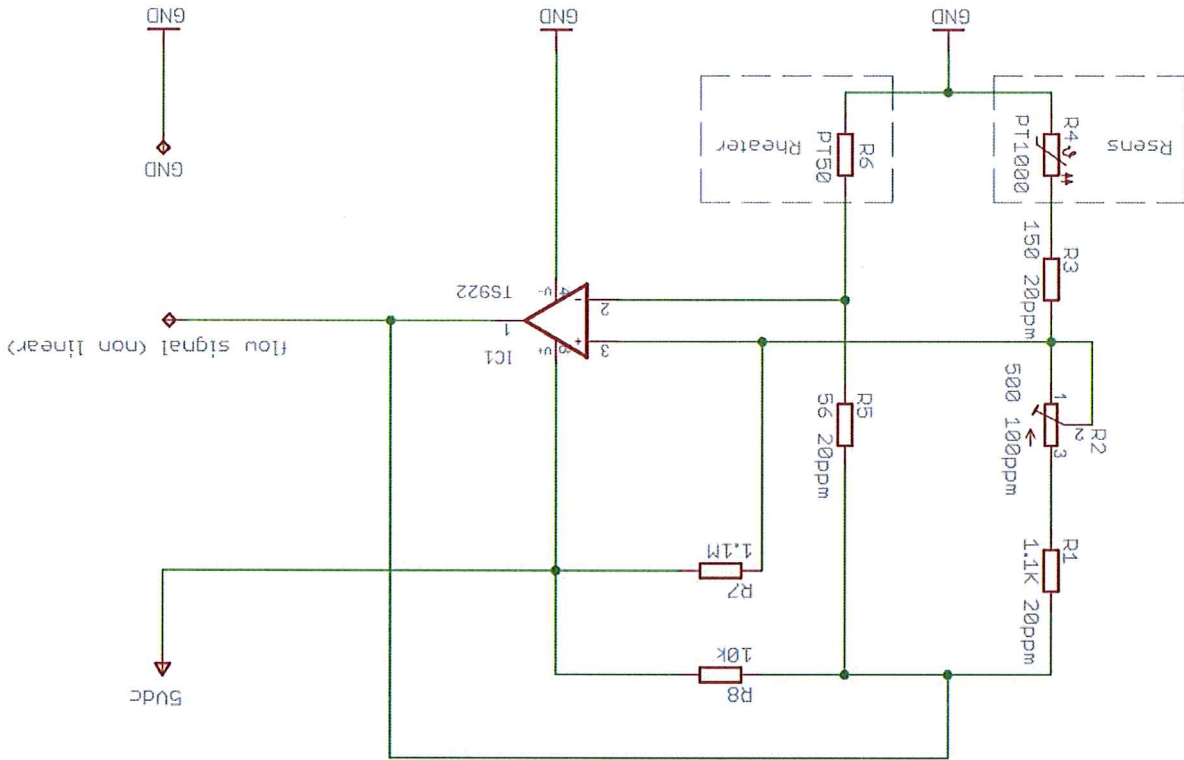


INNOVATIVE SENSOR TECHNOLOGY
 IST AG, Stegrütstrasse 14, CH-9642 Ebnat-Kappel, Switzerland, Phone +41 (0)71 992 01 00, Fax +41 (0)71 992 01 99,
 email info@ist-ag.com, www.ist-ag.com

GENERAL SPECIFICATIONS: Preliminary

NOMINAL RESISTANCE:	Heater: 50 Ohm @ 0°C (red wires) Reference Sensor: 1000 Ohm @ 0°C (white wires)
TEMPERATURE COEFFICIENT:	3850 ppm/K
TOLERANCE:	DIN EN 60751 F 0,6 (class C)
TEMPERATURE RANGE:	-50 to 180°C
TEMPERATURE DEPENDENCE OF RESISTIVITY:	according to DIN EN 60751: $R(t) = R_0(1+A \cdot t + B \cdot t^2 + C \cdot [t-100]^3)$ $R(t) = R_0(1+A \cdot t + B \cdot t^2)$ $0 \text{ to } 180^\circ\text{C}$ $R(t) = R_0(1+A \cdot t + B \cdot t^2)$ $A = 3.9083 \cdot 10^{-3} [^\circ\text{C}^{-1}]$, $B = -5.775 \cdot 10^{-7} [^\circ\text{C}^{-2}]$, $C = -4.183 \cdot 10^{-12} [^\circ\text{C}^{-4}]$ $R_0 = \text{resistance value in Ohm at } 0^\circ\text{C}$ $t = \text{temperature in accordance with ITS90}$
DIMENSIONS SENSOR ELEMENTS (MM):	length 2.3 ± 0.2 width 2.0 ± 0.2 height 1.3 ± 0.3 wire length 50 ± 3
LEAD WIRES:	Cu/Ag wire, AWG30/7, PTFE insulated, 50mm long
TUBE MATERIAL	AISI 316L
TUBE DIMENSIONS (MM)	OD 6 ± 0.1 ID 5.3 ± 0.1 \varnothing FLANGE 7 ± 0.2 LENGTH 63 ± 0.5

Example circuitry



Note: The output signal is depending on the media and needs to be calibrated for the application in use. The required tolerance affects the effort for calibration (quantity of calibration points, calibration flow speed range, temperature range, etc.).

OS	OS Manager	A. Polakova	<i>A. Polakova</i>	17.03.2014
APPROVED	R&D Manager	F. Krogmann	<i>F. Krogmann</i>	17.03.2014
DRAWN	R&D	F. Klammssteiner	<i>F. Klammssteiner</i>	17.03.2014
	Title	Name	Signature	Date

All mechanical dimensions are valid at 25°C ambient temperature, if not differently indicated. All data except the mechanical dimensions only have information purposes and are not to be understood as assured characteristics. Technical changes without previous announcement as well as mistakes reserve. The information on this data sheet was examined carefully and will be accepted as correct. No liability in case of mistakes. Load with extreme values during a longer period can affect the reliability. All rights reserved. The material contained herein may not be reproduced, adapted, merged, translated, stored or used without the prior written consent of the copyright owner. Typing errors and mistakes reserved. Product specifications are subject to change without notice.

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