



innovative
Sensor
Technology

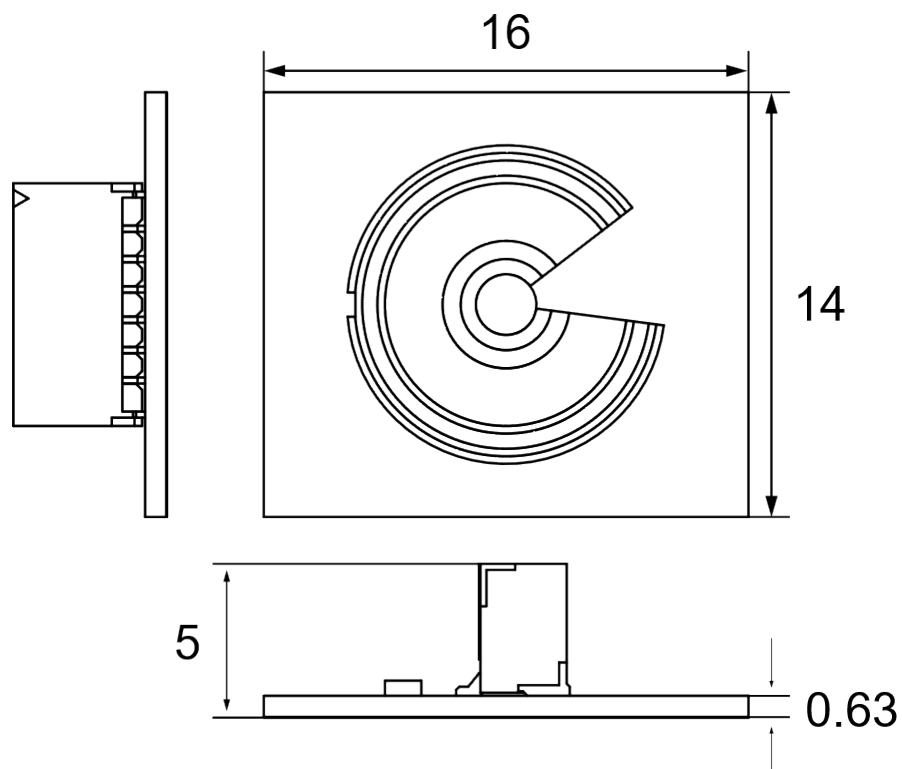
physical · chemical · biological



Conductivity Sensor

Order number	Product Name	Rev.	Release date	Document number
158615	LFS.4CO.1614.63A2.CON.P1K0.B	2.0	01.06.2026	DBCC_0006_EN

Dimensions [mm]



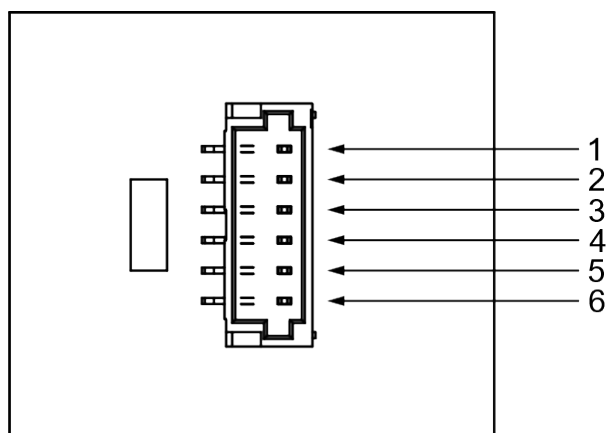
General Specifications

Conductivity range	2 mS/cm – 20 mS/cm (range can be adjusted depending on the measurement frequency)
Cell constant	Typical 0.66 cm ⁻¹
Measurement frequency range	130 Hz – 1300 Hz (range can be adjusted depending on the conductivity of the solution)
Maximum excitation voltage	< 0.7 Vpp (electrolysis of the analyte must be avoided)
Operating temperature range	- 30°C – 100°C
Temperature sensor	PT 1000, soldered on back-side



Tolerance of temperature sensor	IEC 60751 F 0.3 (Temperature chip only)
Temperature coefficient	According to IEC 60751: - 40 to + 0°C: $R(T) = R_0 \cdot (1 + A \cdot T + B \cdot T^2 + C \cdot [T - 100] \cdot T^3)$ 0 to +150°C: $R(T) = R_0 \cdot (1 + A \cdot T + B \cdot T^2)$ $A = 3.9083 \cdot 10^{-3} \cdot ^\circ\text{C}^{-1}$, $B = -5.775 \cdot 10^{-7} \cdot ^\circ\text{C}^{-2}$, $C = -4.183 \cdot 10^{-12} \cdot ^\circ\text{C}^{-4}$ R_0 = resistance value in Ohm at 0°C T = temperature in accordance with ITS90
Measuring current of temperature sensor	0.3 mA (self-heating must be considered)
Electrical connection:	Connector JST BM06B-SRSS-TB connector on back-side

Pin Assignment



Pin assignment	1	2	3	4	5	6
I: Current electrodes, V: Voltage electrodes, T: temperature sensor	I+	V-	T	T	V+	I-



Innovative Sensor Technology IST AG • Stegrütistrasse 14 • 9642 Ebnat-Kappel • Switzerland •

Phone: +41 71 992 01 00 • Email: info@ist-ag.com • www.ist-ag.com

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 or product specifications without previous announcement reserved • 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 • The material contained herein may not be reproduced, adapted, merged, translated, stored, or used without the prior written consent of the copyright owner • All rights reserved.

