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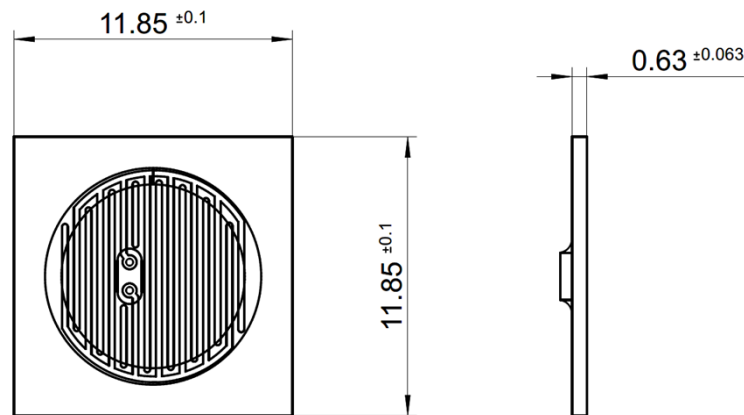
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CONDUCTIVITY SENSOR

Order number	Product Name	Rev.	Release date	Document number
158919	LFS.2ID.1212.63A2.4FC.P1K0.B	2.0	23.04.2026	DBCC_0005_EN

Dimensions [mm]



General Specifications

Conductivity range:	1 $\mu\text{S}/\text{cm}$ – 15 $\mu\text{S}/\text{cm}$ (range can be adjusted depending on the measurement frequency)
Cell constant:	Typical 0.2 cm^{-1}
Measurement frequency range:	1 kHz – 3 kHz (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



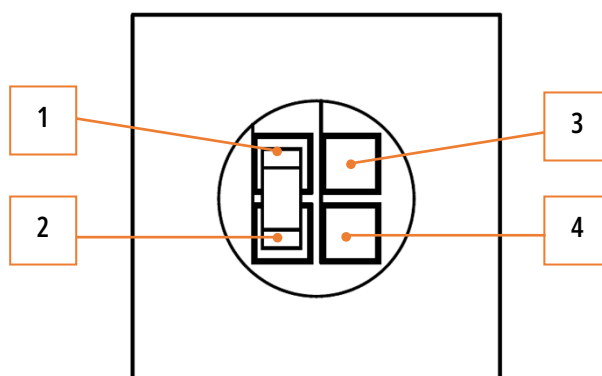
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Measuring current of temperature sensor:	0.3 mA (self-heating must be considered)
Electrical connection:	Solderable sliver pads on the backside, suggested connection spring contacts

Pin Assignment



Pin Assignment	1	2	3	4
(C: conductivity sensor, T: temperature sensor)	T1	T2	C1	C2



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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.