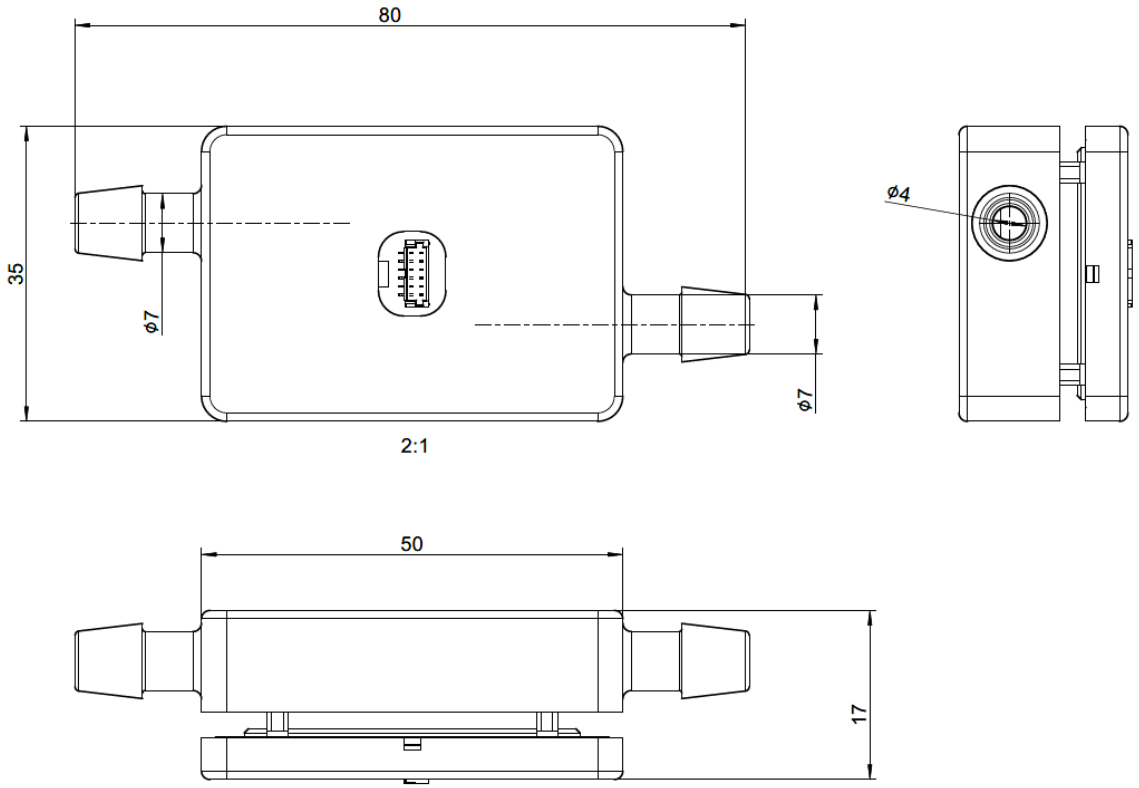
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Conductivity Sensor

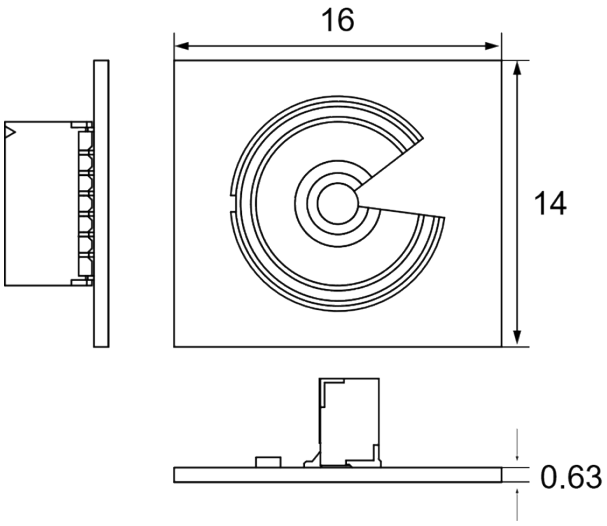
Order number	Product Name	Rev.	Release date	Document number
159662	**LFS.FC503517.A4x15.oval.V1**	1.0	10.11.2026	DBCC_0007_EN

Dimensions Conductivity Flow cell [mm]



Flow rate	0 – 800 ml/min
Material of flow cell	Polypropylene
Flow cell geometry	Oval

Dimensions Conductivity Sensor [mm]



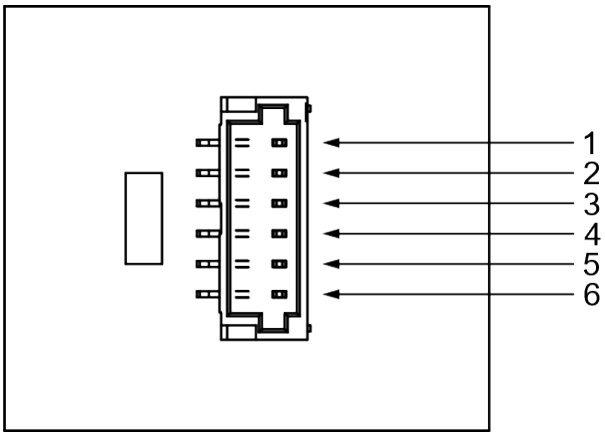
General Specifications Conductivity Sensor

Conductivity range	2 mS/cm – 20 mS/cm (range can be adjusted depending on the measurement frequency)
Cell constant	Typical 0.67 cm^{-1}
Measurement frequency range	100 Hz – 7 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) = R0·(1+A*T+ B*T2 + C*[T-100]*T3) 0 to +150°C: R(T) = R0·(1+A*T+ B*T2) A = 3.9083*10-3·°C-1, B = -5.775*10-7·°C-2, C = -4.183*10-12·°C-4 R0 = 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 the rear

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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-

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