

Out Of Liquid

Bubble detector For very low flow rates

Benefits & characteristics

- For several corrosive liquids
- Bubble detection in stainless-steel tube

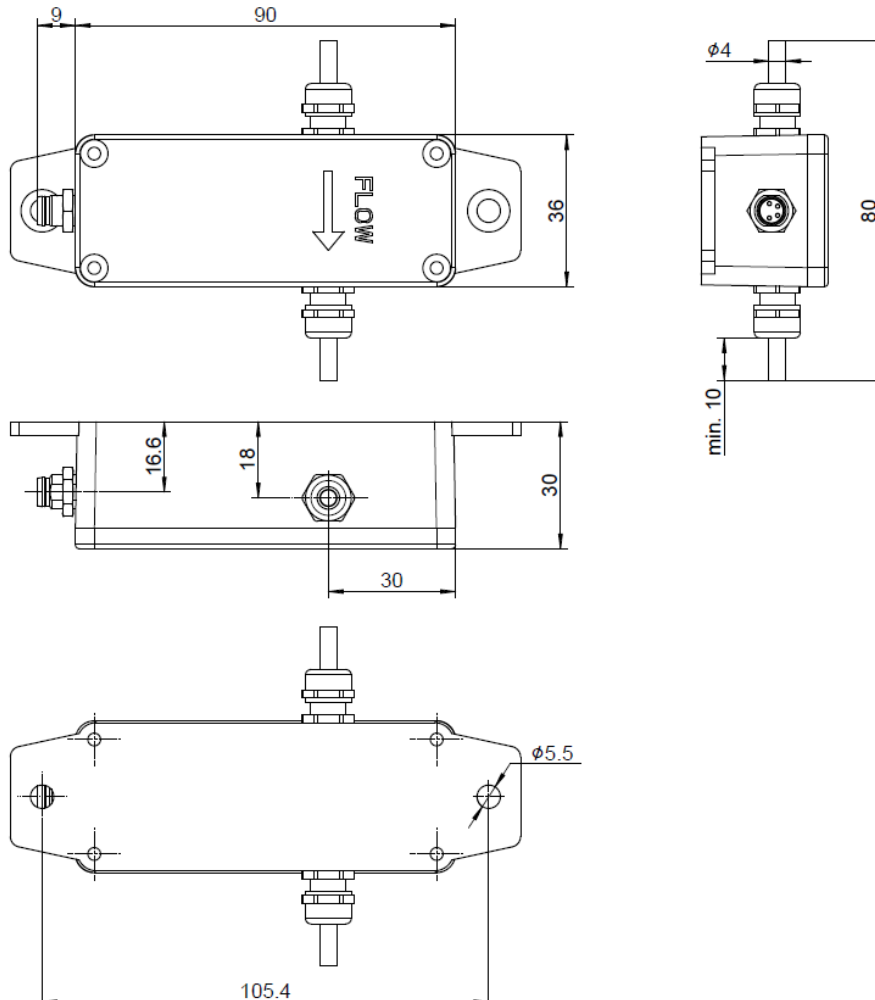
Applications

- Process control
- Leakage detection

The OOL bubble detector operates on a thermal principle. It detects bubbles through a stainless-steel tube and can be used for several liquids, including corrosive liquids. The sensor detects changes in heat conduction and inclusions of e.g. gases in oil.



Illustration



Sizes in mm



Technical data



Mechanical parameters



Flow channel



Parameter	Value	Comment
Media wetted material	Stainless steel 1.4301	

Length	80.0 mm	
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Outer diameter	4.0 mm	
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Inner diameter	3.7 mm	
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Process connection	4.0 mm	Open ended steel tube
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Housing



Material	Aluminum	
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Width	30 mm	
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Length	90 mm	
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Height	36 mm	
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General parameters

Protection class	IP65	
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Weight	140 g	
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Electrical parameters

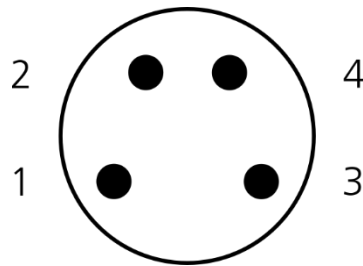
Supply voltage	10 to 26 V	DC
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Power consumption	~1.5 W	
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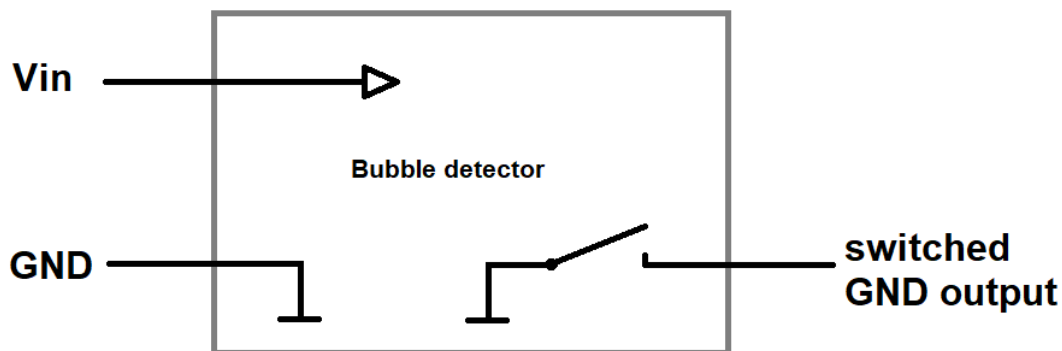
Electrical connection	M8 4-pin	Connector compatible with Phoenix SACC-DSI-M8MS-4CON-L90 SH / Binder 09-3421-82-04
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Pin Assignment



Pin 1	GND	Ground
Pin 2		Not connected
Pin 3	Vin	Voltage supply
Pin 4	Out	Switched Ground output



Recommendation for connecting the module

Based on a plastic tube with an outer diameter of 6.0 mm and a wall thickness of 1.0 mm:

- Ear clamps with insert ring
- One-Ear clamp with insert ring 5.6 - 6.5

Order Information

Product name

EvaKit OOL Bubble Detector v1.0

Order code

153312



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