

59500 Turbine Low Flow Sensor



Features

- Low cost flow sensor
- FDA & NSF61 approved materials
- Suitable for potable water
- Integral connector
- Custom tube fittings available
- Custom harnesses available

Benefits

- No standby power required
- Hermetically sealed contacts
- Robust construction

Applications

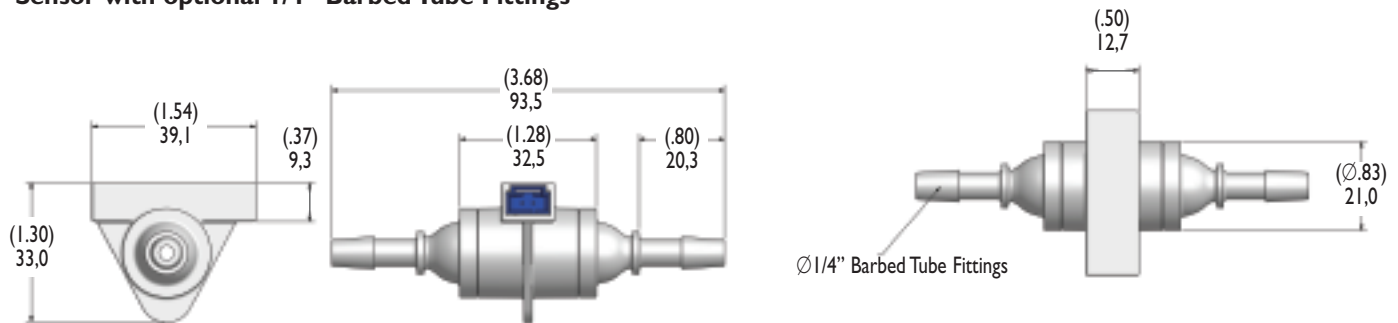
- Water usage
- Appliances
- Residential monitoring
- Commercial
- Industrial

APPLICATION NOTE

Fluid entering the sensor passes through an internal turbine causing it to rotate at a speed proportional to the fluid velocity. A magnet integrated into the turbine actuates reed switch contacts each revolution of the turbine. The resulting output frequency is directly proportional to the volumetric flow through the sensor.

DIMENSIONS (in) mm

Sensor with optional 1/4" Barbed Tube Fittings



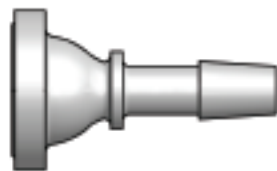
SPECIFICATIONS

Electrical				Physical		
Switch Type			Normally open	Materials	Housing	PPE
Contact rating	Power	W - max.	10		Turbine	POM
Voltage	Switching	Vdc - max.	200		Pivot	Stainless steel
	Breakdown	Vdc - max.	250	Temperature range	°C	0 -70
Current	Switching	A - max.	0.5	Pressure	PSI - max	180
	Carry	A - max.	0.8	Accuracy	±	5%
Resistance	Contact	Ω - max.	0.250	Durability	Gallons	100,000
	Insulation	Ω - max.	10 ¹⁰	Min. flow rate	GPM	0.20
				Mating connector	MolexSL	50-57-9402

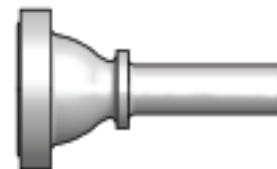
CUSTOMER OPTIONS - Tube fittings

TABLE I Select Option

A Barbed Tube Fitting



B Rigid Tube Fitting



ORDERING INFORMATION

	59500	-	I	-	X	-	00	-	0
Series 59500									
Fittings			Table I						

For details on chemical resistance please contact Hamlin

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