

FC10B02

Material

PPA - Polyphthalamide



How it works A fluid flow through the sensor causes precise displacement of a magnetic piston and closes an electrical contact (reed switch).

- Details**
- On/Off output; NO (SPST) working;
 - Detects increased or decreased flow;
 - Sensitivity adjustment¹.



| Actuation Range (in LPM) |
|--------------------------|
| Water |
| From ~2.5 to ~78 |

- Typical applications**
- Lubrication and cooling systems monitoring;
 - Pipe fluid flow monitoring.

- Liquids**
- Clean water, oils, lubricants and filtered fuels².



Liquids with magnetic particles will cause deposition/magnetic sedimentation and it will prejudice the operation of the sensor. Use magnetic filter before the sensor.

Liquids with encrustation particles and/or solids require tests.

Technical specifications

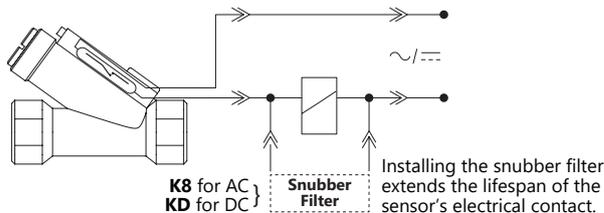
| | |
|-----------------------------|-------------------------------------|
| Internal clearance | 380mm² |
| Maximum operation pressure | 25bar |
| Operating temperature range | 0°C to 100°C 140°C @1h |
| Inlet/outlet port | G 1" female (BSP - Parallel) |
| Spring | AISI 302 stainless steel |
| Sealing | NBR (nitrilic rubber) O'Ring |
| Output connection | DIN 43650 Connector - B |
| Enclosure rating | IP66 |
| Electrical contact | Reed Switch 20W/VA |

The sensors work in all voltage and current ranges displayed in the table below:

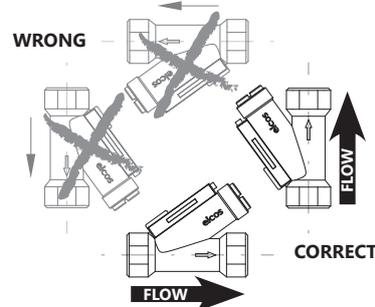
| Operating Voltage | Max. Switching Power | Max. Switching Current | Peak Current |
|-------------------|----------------------|------------------------|--------------|
| 110Vac | 20VA | 0.2A | 0.5A @20ms |
| 220Vac | 20VA | 0.1A | 0.5A @20ms |
| 5Vdc | 2.5W | 0.5A | 1A @20ms |
| 12Vdc | 5W | 0.5A | 1A @20ms |
| 24Vdc | 10W | 0.5A | 1A @20ms |

24Vac: Recommended use with Schneider coupling relay model RSLZVA1.

• Typical connection to contactor

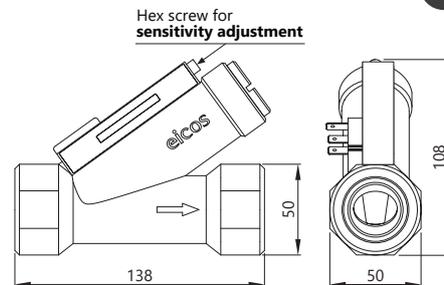


Mounting (Important!)



Dimensions (mm) and Weight

495g



Notes

¹ In water. Set point accuracy: ± 15%.

Repeatability (not considering the viscosity change of liquids): ± 10%.

² For application in oil, recommended model **FC10B04**.