

FA14B02-M12

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	Oil 68 cSt @ 40°C
From ~0.8 to ~5.0	From ~0.05 to ~0.50

- Typical applications**
- Lubrification 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

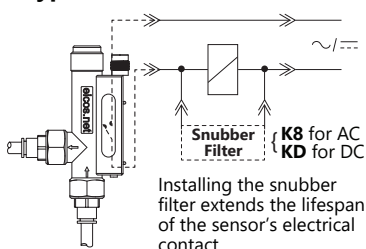
Internal clearance	8mm ²
Maximum operation pressure	25bar
Operating temperature range	0°C to 100°C 140°C @1h
Inlet/outlet port	G 1/4" female (BSP - Parallel)
Spring	AISI 304 stainless steel
Sealing	NBR (nitrilic rubber) O'Ring
Output connection	M12 male plug (2 pins)
	M12 female connector NOT included
Enclosure rating	IP66
Electrical contact	Reed Switch 20W/VA

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

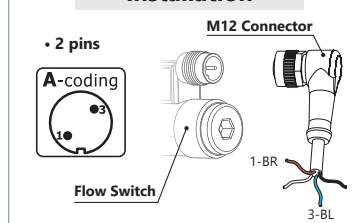
Operating Voltage	Max. Switching Power	Max. Switching Current	Peak Current
110Vac	20VA	0.2A	0.5A @20ms
220Vac	20VA	0.1A	0.5A @20ms
5Vdc	2.5W	0.5A	1A @20ms
12Vdc	5W	0.5A	1A @20ms
24Vdc	10W	0.5A	1A @20ms

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

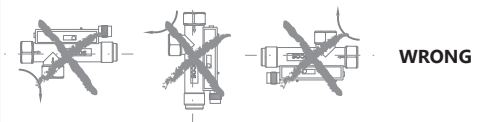
• Typical connection to contactor



M12 Plug Sensors Installation

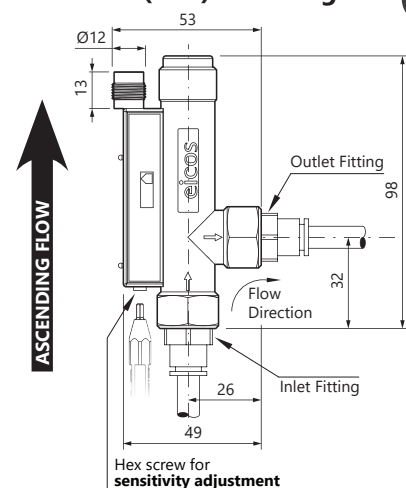


Mounting (Important!)



Dimensions (mm) and Weight

71g



Notes

¹ In water. Set point accuracy: $\pm 15\%$.

Repeatability (not considering the viscosity change of liquids): $\pm 10\%$.

² For application in oil, recommended model **FA14B04-M12**.

For application in viscous oil, recommended model **FA14B06-M12**.