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Flow Switch for liquids
G 1" Connection
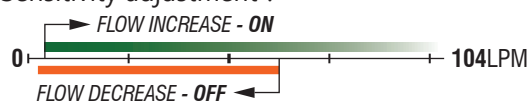
Datasheet
C.02/Apr2020

FC10B04

CE

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 adjustment[1].

► FLOW INCREASE - *ON*

0 ──────────────────────── **104**LPM

FLOW DECREASE - *OFF* ◄

Actuation Range (in LPM)
Water
From ~4.3 to ~104

Typical applications
• Lubrification and cooling systems monitoring;
• Pipe fluid flow monitoring.

Liquids
• Clean water, oils, lubricants and filtered fuels.

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.
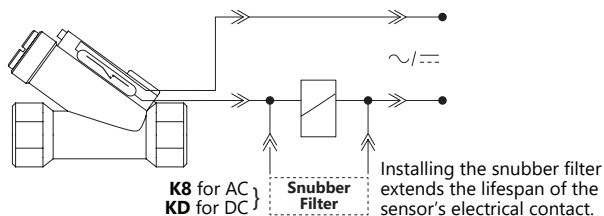
Technical specifications

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**

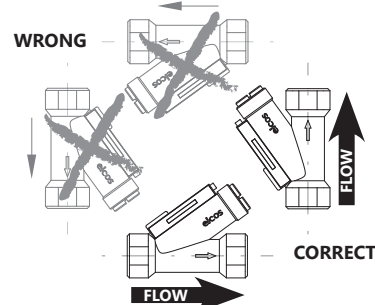*The sensors work in all voltage and current ranges displayed in the table bellow:*

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.
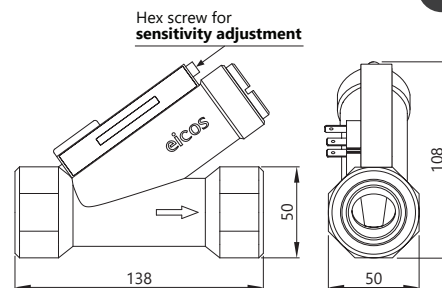
• Typical connection to contactor

K8 for AC
KD for DC

Snubber Filter

Installing the snubber filter extends the lifespan of the sensor's electrical contact.

Mounting (Important!)

WRONG

CORRECT

FLOW

FLOW

Dimensions (mm) and Weight 495g

Hex screw for **sensitivity adjustment**

138   50   108   50

Notes
[1] In water. Set point accuracy: ±15%.
Repeatability (not considering the viscosity change of liquids): ±10%.