



FlowGuard FS400

Article no. 1286/ [Insertion depth]

Description

The FlowGuard FS400 is a flow monitoring device developed for monitoring liquid media. The device works based on the calorimetric principle and is equipped with an analogue output (4 ... 20 mA) and a status output (PNP/NPN) which changes when the flow rate drops below a limit set by the user. Ten LED's indicate flow and contact closure which can be defined in the scale.

The sensor can be used in a measuring range between 4 ... 400 cm/s and a media temperature between -10°C and 80 °C. If the pipe is empty, the sensor behaves as if there is zero flow.

Product Highlights

- Flow monitor for **liquid media** in the range of 4 ... 400 cm/s **with analogue (4 ... 20 mA)** and **status output (PNP, NPN)** for monitoring a flow threshold
- Ten **LEDs** indicate flow and contact closure
- Equipped with **2 control** buttons for setting the switching point
- Available with **65 mm and 125 mm insertion depth**
- Robust design for **industrial environments, IP67**

Areas of Application

Flow monitors of the FlowGuard FS400 series are developed for industrial environments. Exemplary applications are in controlling cooling circuits of welding and cutting machines or surveilling filter systems.

The flow sensors monitor entire flow processes to ensure that a liquid is flowing beyond a defined threshold. The current flow can be visualized in a PLC. The sensors are designed to withstand tough conditions, e. g., for monitoring aggressive media such as acids and alkalis.

Technical Data

Power supply	24 V ± 10%
Input power	Max. 4 VA
Electrical connection	M12/1 (4 Pins)
Process connection	G1/2", optional reducers to G1/4" available
Sensor design	Compact
Measuring range	4 ... 400 cm/s
Accuracy	± 2 ... 8 cm/s
Hysteresis	2 ... 8 cm/s
Media temperature	-10 to 80 °C
Ambient temperature	-20 to 55 °C
Display	10 x three-colour LED (flow velocity)
Material in contact with medium	Stainless steel V4A (DIN 1.4404)
Maximum pressure	64 bar
Ingress Protection	IP 67
Ambient humidity	max. 90 %
Status contact	Passive, potential free, max. 350 V, AC/DC, 150 mA, 400 mW
Weight	290 g
Dimensions	91 x 74 x 60 mm
Approval	CE

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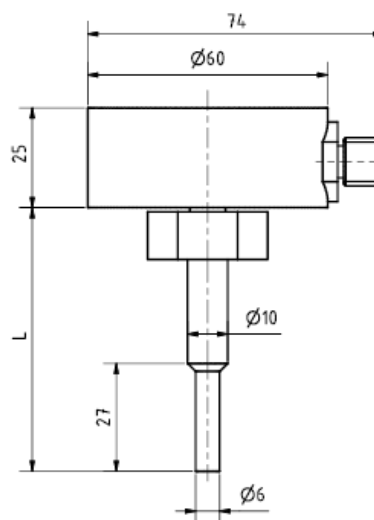
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Insertion depth

65	65 mm
125	125 mm

Dimensions



Wiring diagram

PNP



NPN



- Pin 1 Supply voltage 24 V
- Pin 2 4 ... 20 mA output
- Pin 3 Supply voltage GND
- Pin 4 PNP/ NPN contact switching pint