

Installation Instructions Evaluation system for flow sensors

е<mark>fectorэо</mark>с SR0127

UK



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1 Safety instructions

- Please read the product description prior to installing the unit. Ensure that the product is suitable for your application without any restrictions.
- The unit conforms to the applicable regulations and EC directives.
- Improper or non-intended use may lead to malfunctions of the unit or to unwanted effects in your application.
- That is why installation, electrical connection, set-up, operation and maintenance of the unit must be carried out by qualified personnel authorised by the plant operator.
- In all applications test the compatibility of the product materials (see technical data) with the media to be measured.
- The design of the unit corresponds to protection class II (EN 61010) except for the terminal blocks. Protection against accidental contact (safety from finger contact to IP20) for qualified personnel is only ensured if the terminals have been completely inserted. For this reason the unit must always be installed in a control cabinet which can only be opened with a tool, for pollution degree 2 and overvoltage category II.

2 Functions and features

The evaluation system SR0127 is designed to work with flow sensors of the type SFxxxx. It evaluates the signals from the sensors and signals whether there is a preset flow rate or not:

- Output closed if medium is flowing, output open if no medium is flowing.
- Internal wire break monitoring: in the case of an open circuit the output is opened.

3 Installation

Mount the housing on a 35mm DIN rail or attach it to a mounting plate.

3.1 Mounting of the sensors:

Adhere to the mounting instructions of the manufacturer.

4 Electrical connection

The unit must be connected by a qualified electrician.
The national and international regulations for the installation of electrical equipment must be adhered to.

Voltage supply to EN 50178, SELV, PELV.

- Disconnect power.
- Connect the unit as follows:



Core colours of ifm sockets:

- 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black), 5 = GY (grey)
- To avoid malfunction caused by interference, lay the sensor cable separately from the load cable. Max. length of the sensor cable: 100 m.

5 Adjustment



- 1. Apply the operating voltage. After the power-on delay time has elapsed, the unit is ready for operation.
- 2. Set the preset flow and keep it constant. Turn the setting potentiometer (2) until a green LED lights. The farther the green LED lit is away from the yellow LED, the safer is the adjustment (excess gain for flow or temperature fluctuations).

6 Operation

After mounting, wiring and setting check whether the unit operates correctly.

In the case of wire break the output switches OFF. After rectification of the fault the control monitor is again ready for operation.

7 Maintenance

In case of correct use no maintenance measures are necessary.

After use dispose of the unit in an environmentally friendly way according to the valid national regulations.

8 Technical data and scale drawing

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