Product information

Sensor

Electronic Flow Monitoring

Typ: SW20

- Advantages

- Compact design
- Power supply with 24VDC or 230VAC
- Self-sealing housing
- Free adjustable switching point for signal

- Basic Information

The shortfall of limit values for flowing liquids in containers of all types is monitored by the electronic flow switch SW20, critical states and signaled triggered a message.

- Application

The electronic flow switch is used in areas where the limits of flows of liquids and air must be monitored e.g. in:

- Containers of all kinds
- Pipe-lines / - systems
- Laboratories
- Filter systems
- Cleaning systems
- …

- General Funktion

The electronic flow switch works on the calorimetric principle. It detects the flowing medium, and outputs an electrical signal equivalent. The heated Sensor probe is cooled by the surrounding medium. This change is detected and evaluated. The detection of the stored threshold value is indicated by an LED and an additional relay that both a normally open and a normally closed contact provide. If the threshold for a given flow rate is set, a heating of the medium must be avoided.

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- Technical Data

Operating voltage :

SW20 DC:	24V AC/DC 5%
SW20 AC:	230V AC 6%
Overvoltage category:	II
Power Input:	4,5VA
Optical Mode:	green LED

Outputs:

1 x relay (as switcher)

- switching voltage:	250V AC ; 6A ; 1,5kVA
Switching function at flow:	Relay attracts
Optical:	yellow LED

Operating temperature:

-20 … +60°C

Medium:

Air:	-25 … + 80°C
Water (30% Glykolanteil):	-10 … +80°C
Temperature gradient:	15K/min
Switching point:	Adjustable via potentiometer
Measuring range Air:	0,5 … 20m/s
Measuring range Water:	0,03 … 3m/s
Response time:	1 … 10s max. 90s

Sensor:

Probe:	built-in
Depth of immersion:	appr. 46 or 150mm
Process connection:	G ½“
Sensor material:	stainless steel V2A
Compressive strength:	max. 20 bar

Housing:

Protection housing:	IP65
Protection sensor:	IP67
Contamination class:	2
Elektrical. connection:	5 Klemmen (2,5mm²)
Dimensions (L x B x H):	56 x 84 x 82mm

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Installation conditions:

To prevent malfunctions, the following points must be observed:

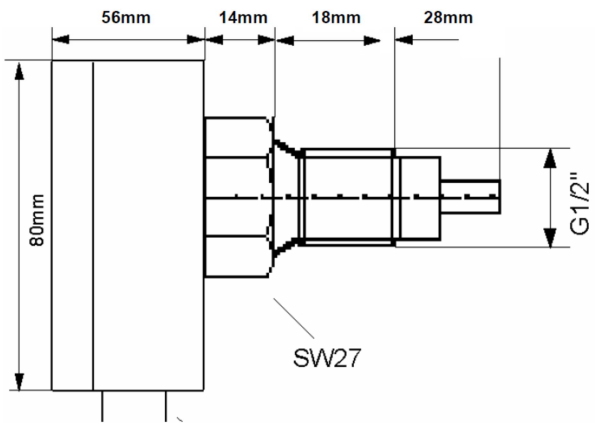
- The sensor needs to be installed in area where it is surrounded completely by the medium
- Do not install directly behind bends (distance approx. 10x bend radius)
- Install the probe in the middle of the duct where possible (distance at least 1/3 of the duct diameter from the wall)
- Do not install directly behind heating register (rapid changes in temperature may lead to the measured values being falsified)

Do not use a stainless steel sensor in a cooper or brass tube! Through the use of chlorine or copper/brass tube pitting corrosion occurs. A stainless steel sensor should not be used here.

In polluted medium, the sensor should be cleaned regularly.

The device has two Potentiometer for switching point adjustment.
The upper is used for fine adjustment, and the lower for coarse adjustment.

Dimension: (all Dimension in mm)
Housing depth: 80mm

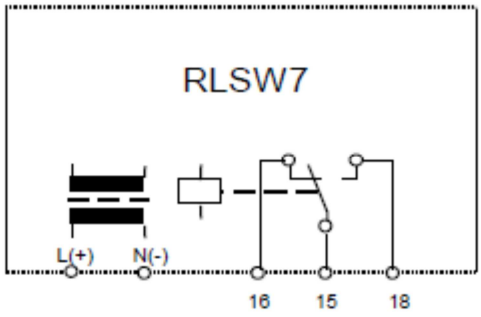


2 x Cable gland M16x1,5
Immersion depth available also in 150mm

Electrical Connection:

Power Supply: L (+) / N (-)

Relay Output: max. 250VAC, 6,0A, 1,5kVA
Closer (NO): 15 / 18
Opener (NC): 15 / 16



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Responsibility:
No responsibility will be accepted for thermistors which have not been installed and tested according to the relevant standards as previously listed in our data sheet.
Due to the ongoing research and development program, product specification may be subject to change, at the manufacturer's discretion.

For further advice and information contact:

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