

Klinger universal flowswitch

Mechanical Paddle for insertion

Monitoring flow is today a discipline that is very widespread, and in the majority of installations, where liquids are transported, there is interest in monitoring the flow and being able to take action if leaks should occur or the expected liquid supply disappears / changes .

Mounting a flow meter will be the immediate solution, but in many applications it is "just" an alarm that is needed, and a flow switch will therefore be an attractive solution - not least because of the price, that will be more attractive than a complete meter with electrical output signals.

Selection of flowswitch

There are several different types of flow switches on the market, but it is probably the paddle switch that is the most common for safety monitoring.

The type is preferred because the alarm function is direct and activated without delay - solely on the basis of the liquid flow, independent of pressure and temperature.

The principle is simple

The switch is built around a paddle that is in contact with the medium. The paddle is attached to the center, and provided with a permanent magnet at the opposite end. This is used to actuate a switch that is located outside the fluid flow.

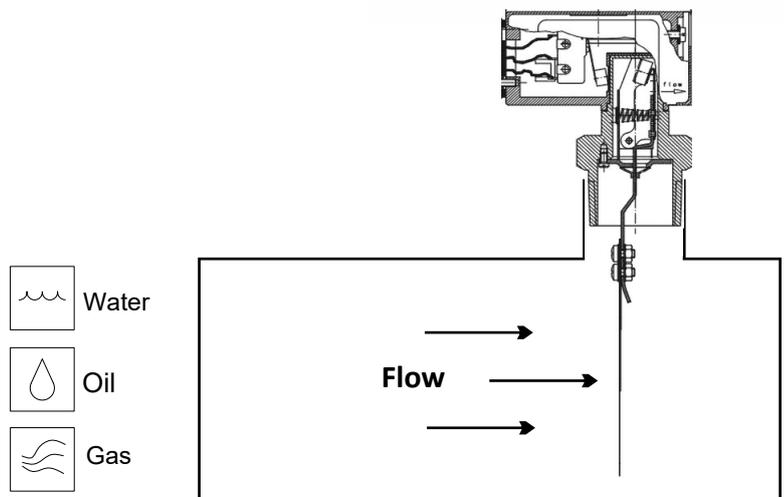
When the liquid flow to be monitored is in motion, it pushes against the paddle which will rotate around the suspension point and in this way activate the switch.

As soon as the liquid flow is interrupted, the paddle will move back to the starting position and deactivate the electrical switch. The force required to push the paddle back into the starting position is provided by a spring.

One switch for all pipesizes

The universal flowswitch offer the possibility to adjust the length of the paddle to make it possible to fit the switch to pipesizes from DN32 to DN150mm.

In the box you'll find 4 different paddles for the different ranges. Finally can the Switchpoint be adjusted by the adjustment screw for more accurate setting.



Universal Paddleswitch for insertion:

- Same switch for Pipesize DN32 to DN150
- For Insertion Sleeve G3/4" or G1"
- Paddle in Copper
- Plug og Cable connection
- Adjustable setpoint

Technical data

| | |
|----------------------------|--|
| Design: | Flowswitch for insertion |
| Type: | S22020BE/F & S22025BE/F |
| Materialer: | Paddle: Copper Process Conn.: Nickel plated brass Cover: ABS |
| Process conn.: | Thread G 3/4" r G1" |
| Pipe sizes: | DN 32 to DN 150mm |
| Setpoint range: | Se table |
| Elektrical conn.: | Plug: DIN 43650A Cable: 1,0m PVC cable |
| Output: | Microswitch: Max 250VAC, 24VDC / 3A |
| Ingress protection: | IP 65 |
| Temperatur: | Ambient: -20...85 °C Media: -30...110 °C |
| Presssure loss: | 0,01bar at Max Flow |



Ranges

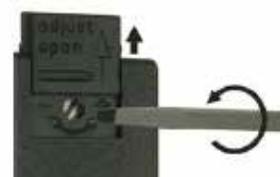
| Pipe size | Max Flow m3/h | Adjustable range m3/h | | | |
|-----------|---------------|-----------------------|-------------|----------------|-------------------|
| | | Paddle 1 | Paddle 1, 2 | Paddle 1, 2, 3 | Paddle 1, 2, 3, 4 |
| DN32 | 6 | 1.7-1.8 | -- | -- | -- |
| DN40 | 9 | 1.7-2.4 | -- | -- | -- |
| DN50 | 15 | 4.5-4.9 | 1.2-1.4 | -- | -- |
| DN65 | 24 | 9.5-11.2 | 3.2-3.6 | -- | -- |
| DN80 | 36 | 13.5-14.8 | 5.9-7.4 | 1.4-2.7 | -- |
| DN100 | 60 | 25.8-30.2 | 8.3-8.8 | 3.3-3.9 | 2.3-3.8 |
| DN125 | 85 | 35.5-41.6 | 11.7-13.1 | 5.1-5.8 | 3.1-3.8 |
| DN150 | 110 | 49.6-54.7 | 14.8-16.9 | 6.2-6.6 | 4.0-4.5 |

Values are for water at 20°C, horizontal pipe / tolerance 15%

Switchpoint setting:

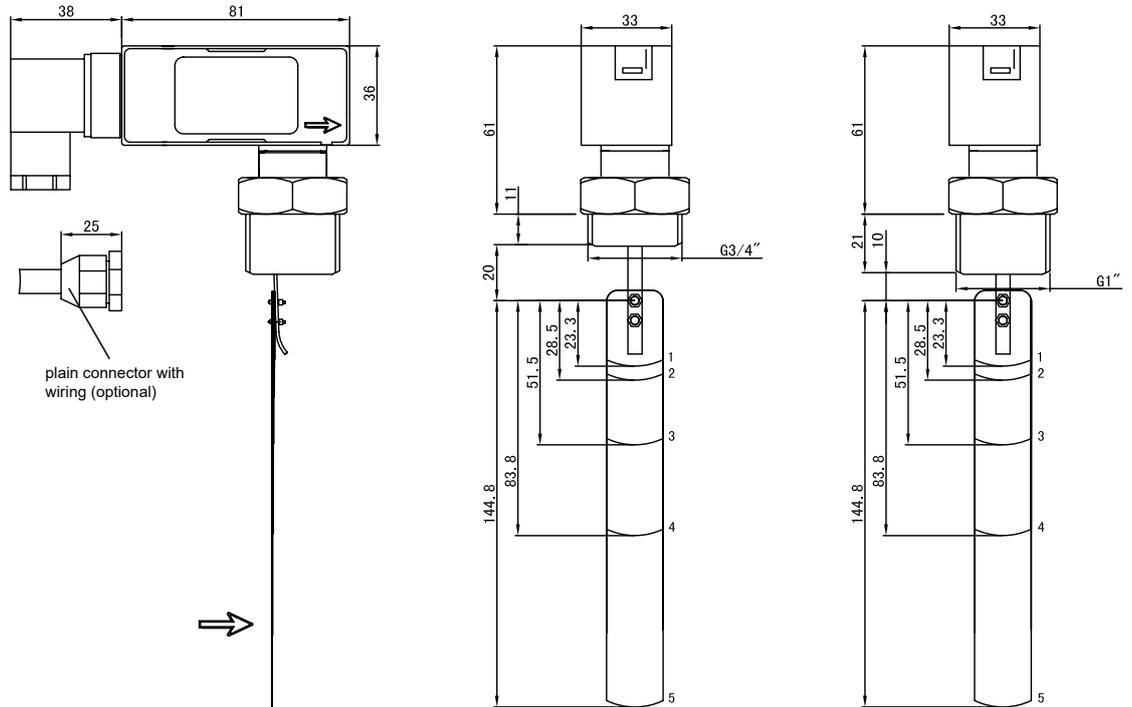


1. Open the cover



2. Adjust the switchpoint by turning the screw

Dimensions

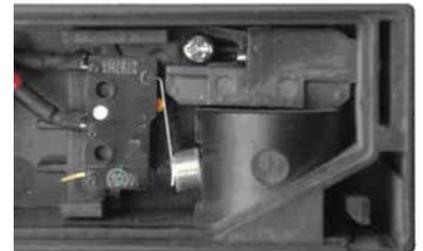


plain connector with wiring (optional)

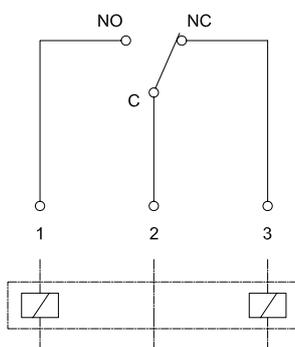
Electrical connection

The output of the Paddleswitch are a Microswitch, allowed load:

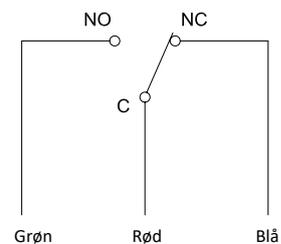
Max. Current: 3A
 Max. Voltage: 250 VAC / 24 VDC +/- 10%



Plug EN 175301-803-A



Cable



Product type

| S22 | 020 | B | E | 1A | Specifikation |
|-----|-----|-----|-----|-----|--|
| S22 | 020 | | | | S 22 Paddle switch |
| | 025 | | | | Connection G3/4" |
| | ... | | | | Connection G1" |
| | | B | | | Material connection: Nickel plated brass |
| | | ... | | | |
| | | | E | | Connection: Female thread |
| | | | F | | Connection: Male thread |
| | | | ... | | |
| | | | | 1A | EI-connection: Plug DIN 43650 |
| | | | | 2A | EI-connection: Cable 1,5m |
| | | | | ... | |

Sample type:

Paddle switch for DN32...150mm pipe w. G 3/4" female thread, DIN 43650

Product type: S22020BE1A

Other models:

With T-Piece:



For insertion:

