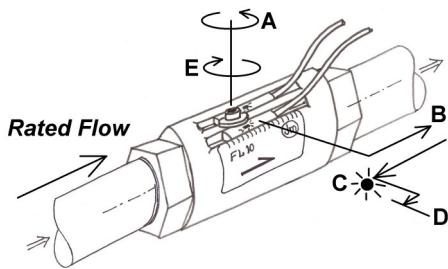


Installation / operating Manual:

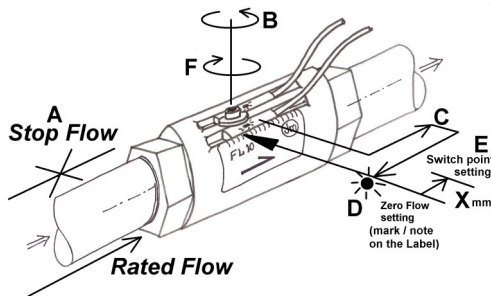
1. Install the flow switch in the pipe line as shown in the adjoining sketch.
2. Install the flow switch as per the direction of flow marked on the switch.
3. Switch ON the normal / rated flow in the pipe line.
4. Connect the reed switch / magnetic sensor in series with the load (relay coil of max. 5 Watt or PLC input)



At Rated Flow: A - B - C - D - E

5. For setting the flow switch point at the present/rated flow rate in the line:
 - A) Loosen the sensor setting screw just enough so that the reed switch in the slot can move freely in the longitudinal direction in the slot.
 - B) Move the reed switch down stream so that it switches off.
 - C) Move the reed switch slowly upstream so that it "just switches ON".
 - D) Depending on the "switching hysteresis required, move the reed switch again upstream by a few mm (say 1 or 2mm).
 - E) Tighten the sensor setting screw (**MAX TORQUE 0.5Nm**)
If the flow reduces below the set value (depending on hysteresis set), sensor will switch off.

6. For setting the flow switch point in engineering units (**LPM on WATER**):



At NO Flow: A - B - C - D - E - F

- A) Stop the flow completely by closing the upstream valve etc. (required for only setting the sensor),
- B) Loosen the sensor setting screw just enough so that the reed switch in the slot can move freely in the longitudinal direction in the slot.
- C) Move the reed switch down stream so that it switches off.
- D) Move the reed switch slowly upstream so that it "just switches ON". Mark this reed switch position on the scale on the sensor. This is the "Zero Flow setting" of the reed switch installed in the flow switch.
- E) Now, depending on the LPM to be set as "switch point LPM", move the reed switch down stream by X mm.
- F) Tighten the sensor setting screw (**Maximum tightening torque 0.5Nm**).

please note that these values are **only approximate**, are for "water" as flow media and are valid within the flow range of the switch. For oils, these values will be approximately lower depending on type of oil. For special types as "Low Flow" as well as "Low Low Flow" these are not valid.

FL50 LPM	9.5	11	12	13	14	15	17
Xmm for FL50	2	4	6	8	10	12	14
FL75 LPM	10	20	30	33	40	50	57
Xmm for FL75	6	9	11	12	13	16	17
FL100 LPM	25	50	75	100	125	150	165
Xmm for FL100	2	5	6	10	15	18	20
FL150 LPM	150	200	250	300	320		
Xmm for FL150	2	4	8	12	15		

7. You can set the Second reed switch in the same way so as to get second switch point / redundant switching output.
8. If you replace the reed switch, carry out the setting again as per above procedure.
Always tighten the setting screw properly so that the setting does not get disturbed. If you need not want to adjust the setting frequently, you may fix the reed switch position by a drop of lock-tight in the slot.
Test the flow switch operation after setting by reducing / stopping the flow and see that the output of flow switch switches off. If this does not happen, repeat the procedure properly again.

