

ifm electronic



Installation Instructions
Flow sensor

efector300®

SF ceramics

UK

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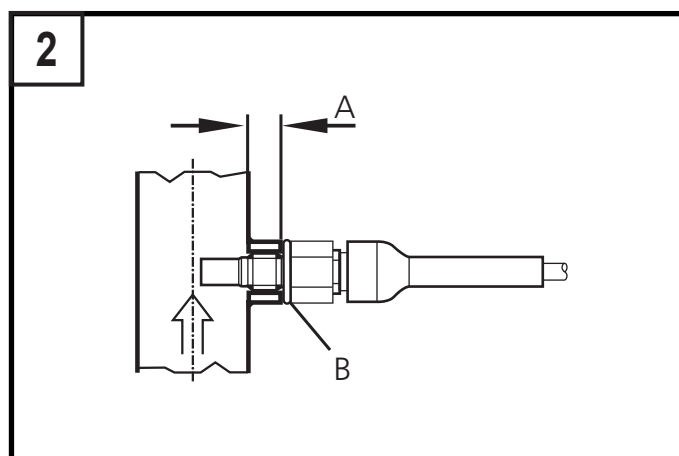
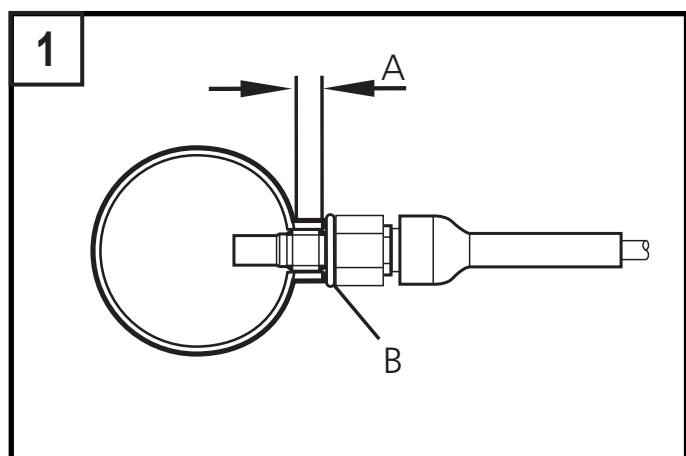
1 Functions and features

In conjunction with the VS3000 control monitor the flow sensor monitors flows in liquids. The sensor / control monitor combination senses whether there is a preset flow rate (= medium flowing) or not (= medium not flowing) and provides a switched signal.

2 Installation

The sensor tip must be completely immersed in the medium.

- In the case of horizontal pipes mount the unit from the side, if possible (fig. 1).
 - When the unit is to be mounted at the bottom of the pipe, it should be free from deposits.
 - When the unit is to be mounted at the top of the pipe, it should be completely filled with the medium to be monitored.
- In the case of vertical pipes mount the unit in a place where the medium flows upwards (fig. 2).



A: mounting bush; B: packing washer

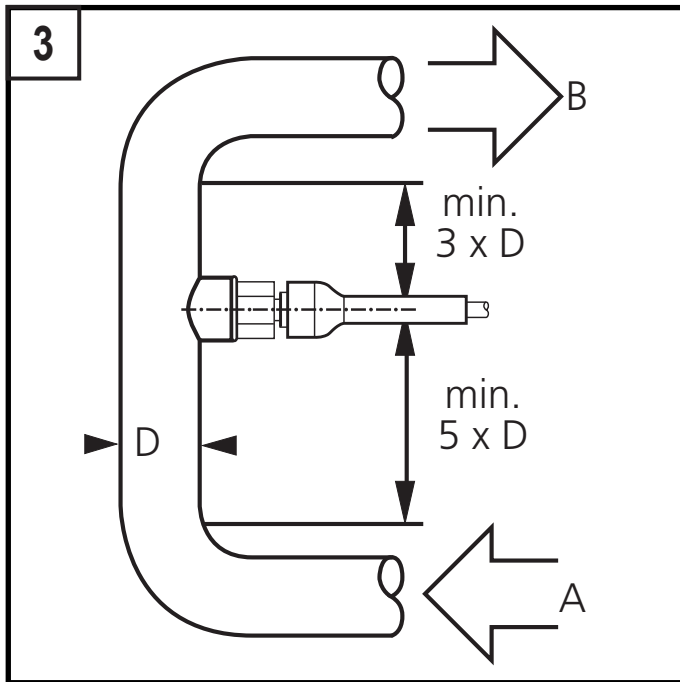
	for units with thread	
	G $\frac{1}{4}$	G $\frac{1}{2}$
Mounting bush (A)	15 mm	33 mm
Max. tightening torque	8 Nm	30 Nm



The thread of the mounting bush must be clean, undamaged and comply with the standard (pipe thread to DIN ISO 228).

For sealing use the supplied PTFE packing washer.

To avoid malfunction a minimum distance between the flow monitor and bends, valves or such like must be observed. Min. 5 x pipe diameter upstream (A), min. 3 x pipe diameter downstream (B).



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3 Electrical connection



The unit must only be connected by an electrician.

The national and international regulations for the installation of electrical equipment must be observed.

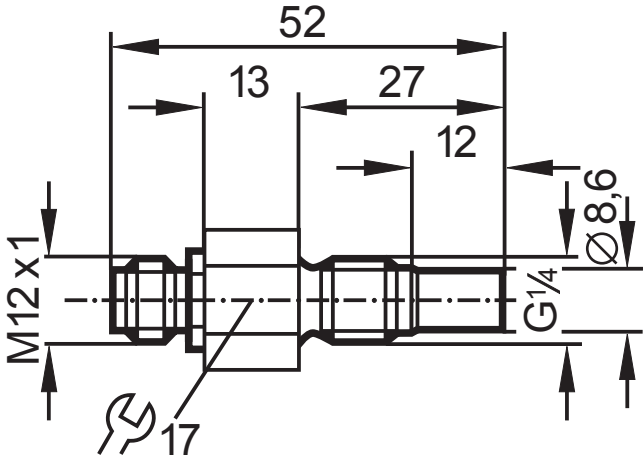
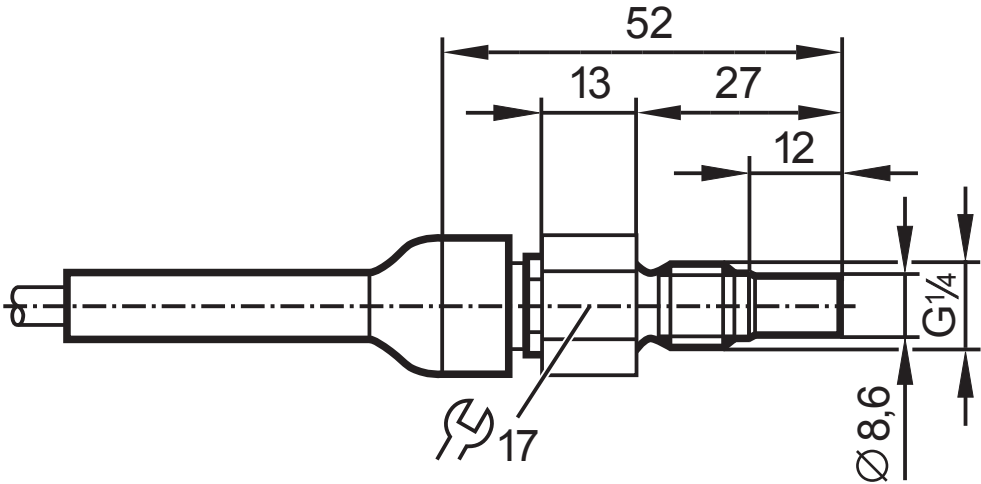
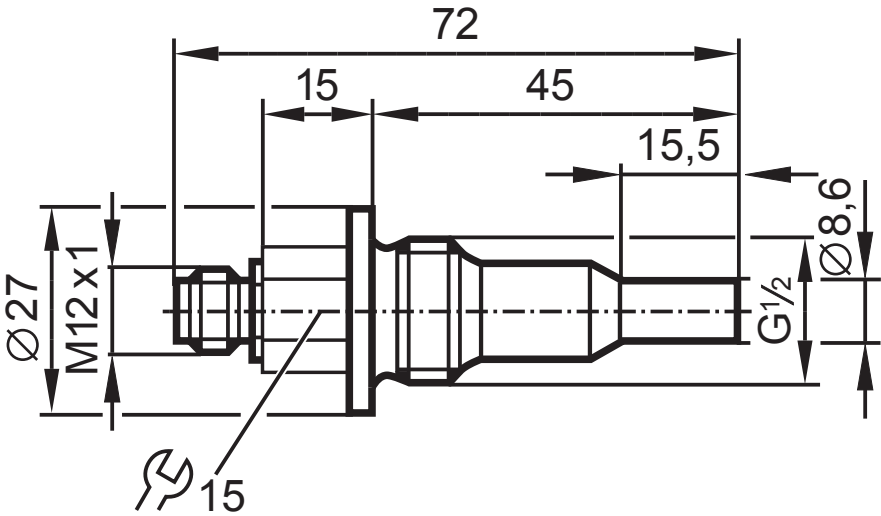
Connection to control monitor VS3000; voltage supply to EN50178, SELV, PELV.

For units with cULus approval and the scope of validity cULus:

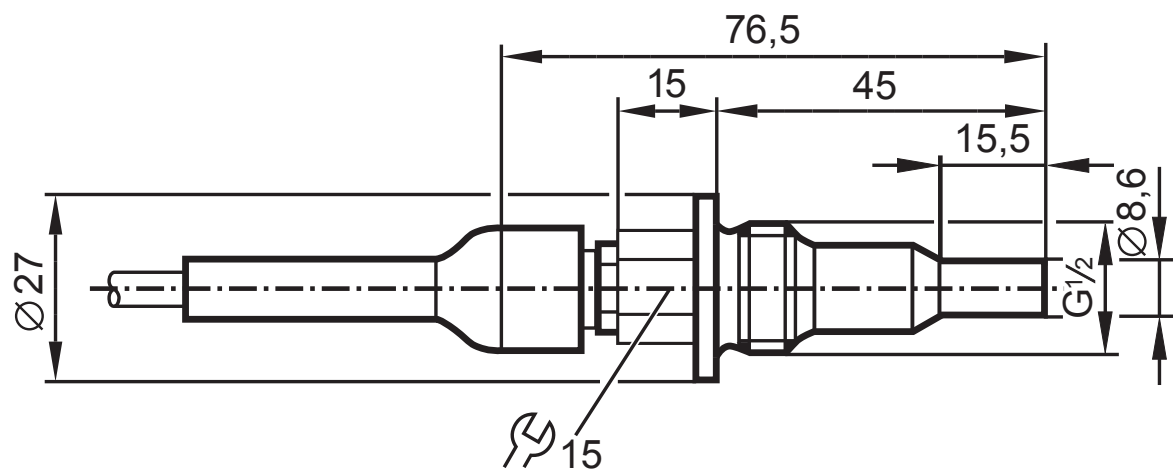
The device shall be supplied from an isolating transformer having a secondary Listed fuse rated either

- a) max 5 amps for voltages 0~20 Vrms (0~28.3 Vp) or
- b) 100/Vp for voltages of 20~30 Vrms (28.3~42.4 Vp).

4 Scale drawings

SF2405	 Technical drawing of the SF2405 valve assembly. The drawing shows a side view of the valve with dimensions: total length 52, distance from inlet to valve seat 13, distance from valve seat to outlet 27, and distance from outlet to end flange 12. The inlet is M12 x 1, the outlet is G1/4, and the end flange has a diameter of Ø8,6. A pressure rating of 17 is indicated.
SF2410	 Technical drawing of the SF2410 valve assembly. The drawing shows a side view of the valve with dimensions: total length 52, distance from inlet to valve seat 13, distance from valve seat to outlet 27, and distance from outlet to end flange 12. The inlet is G1/4, the outlet is G1/4, and the end flange has a diameter of Ø8,6. A pressure rating of 17 is indicated.
SF3405	 Technical drawing of the SF3405 valve assembly. The drawing shows a side view of the valve with dimensions: total length 72, distance from inlet to valve seat 15, distance from valve seat to outlet 45, and distance from outlet to end flange 15,5. The inlet is M12 x 1, the outlet is G1/2, and the end flange has a diameter of Ø8,6. A pressure rating of 15 is indicated.

SF3410



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