

ifm electronic



Installation Instructions
Airflow monitor

efector300[®]

SLG

UK

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1 Function and features

The airflow monitor monitors airflows. It senses whether there is a preset airflow (= green LED lights, output relay energised for NO function, de-energised for NC function).

If the flow is below the preset value, the red LED lights. The output relay is de-energised for NO function and energised for NC function.

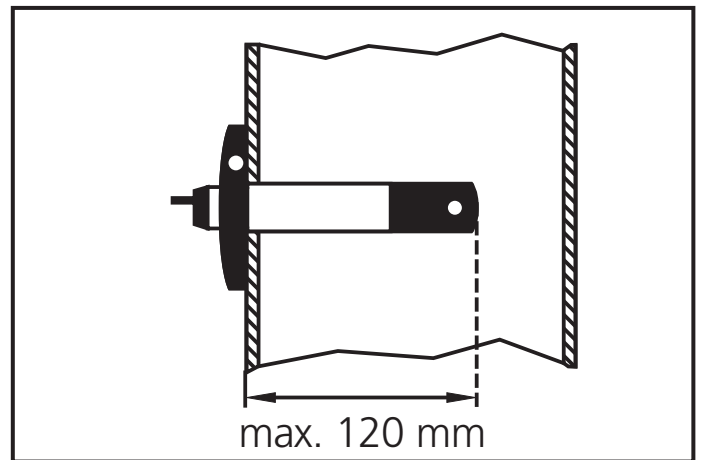
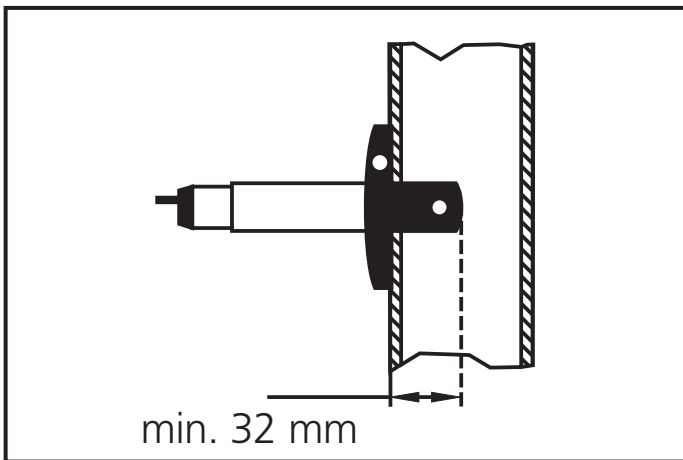
- Setting range 1 m/s to 10 m/s.
- Start-up delay of 3 s ... 60 s (to suppress short-time fluctuations), depending on the preset value

2 Mounting

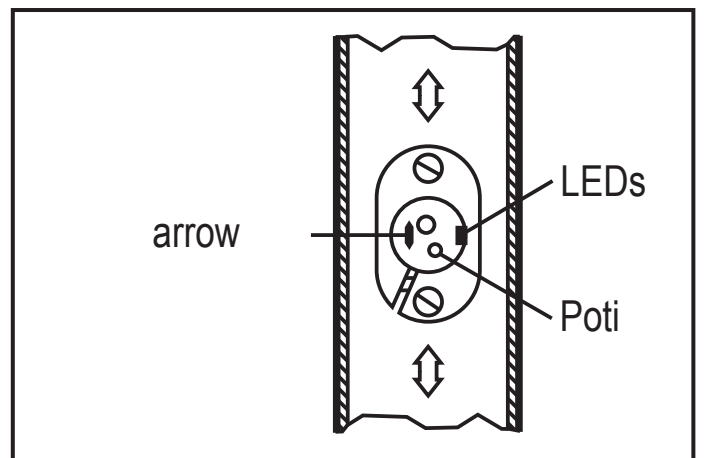
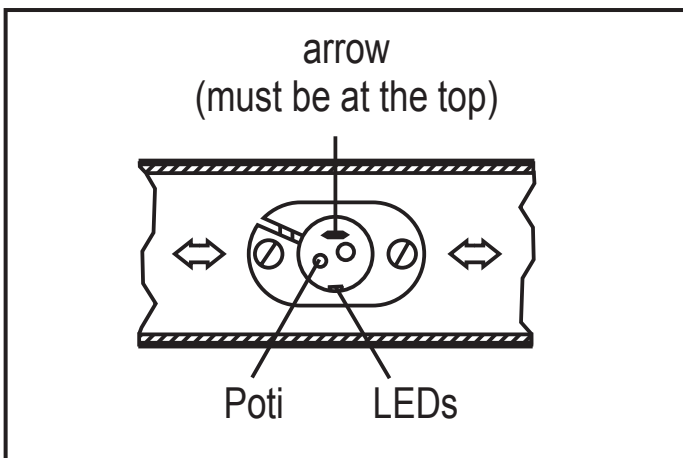


Protect the units and the cables efficiently against damage.

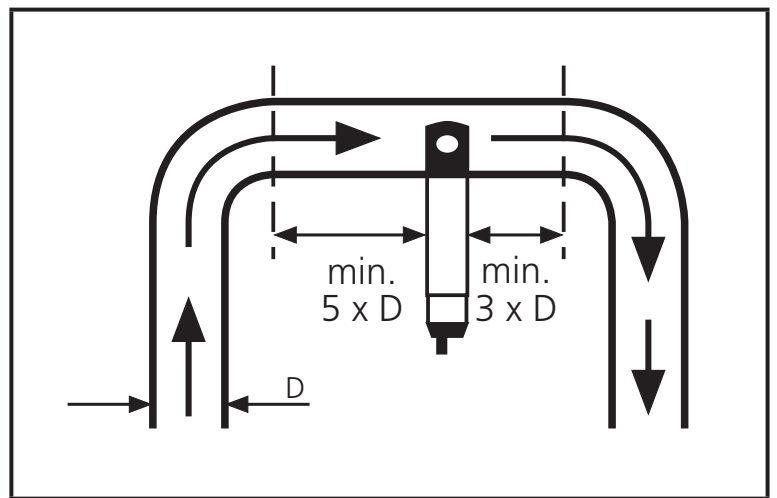
Mount the airflow monitor by means of the mounting clamp provided. Diameter of the mounting hole for the unit: 24 mm. If mounting is to be airtight, use the gasket provided. The sensing head must be completely immersed into the airflow and should be in the range of the highest flow velocity, if possible. Installation depth: min. 32 mm, max. 120 mm.



Align the unit in the airflow; the arrow on the cap must point in the direction of flow.



To avoid malfunction a minimum distance between the air flow monitor and bends, valves or such like must be observed.



3 Electrical connection



The unit must only be connected by an electrician.

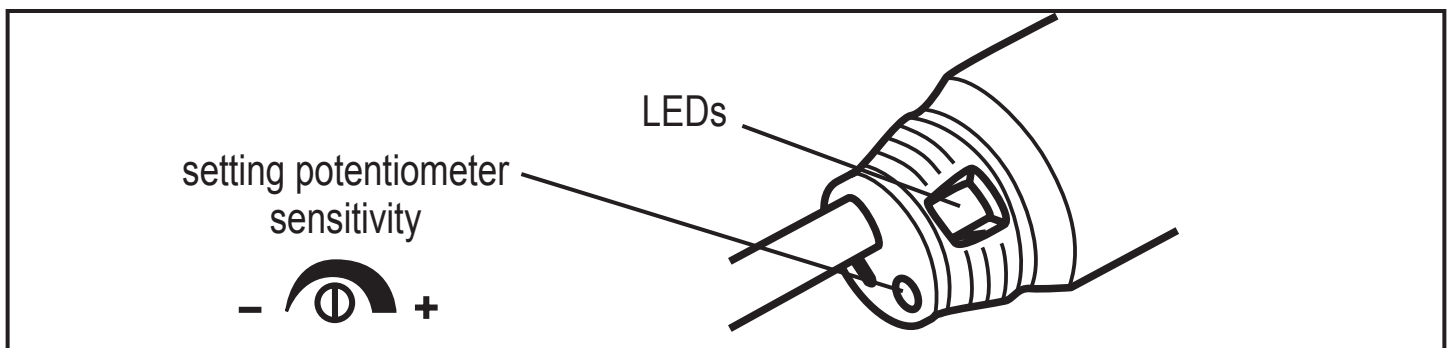
The national and international regulations for the installation of electrical equipment must be observed.

Voltage supply for units up to 60 V to EN50178, SELV, PELV.

Insert a miniature fuse according to the technical data sheet, if specified.

- ▶ Disconnect power.
- ▶ Connect the unit according to the indications on the type label.

4 Adjustment



1	<ul style="list-style-type: none"> ▶ Apply the operating voltage. ▶ Switch on the flow (preset value) and keep it constant. <p>→ Both LEDs (red and green) light; after approx. 60s one LED goes off.</p>	
2	<p>If the red LED lights:</p> <ul style="list-style-type: none"> ▶ turn the pot slowly clockwise until the red LED goes off and the green LED comes on. 	<p>If the green LED lights:</p> <ul style="list-style-type: none"> ▶ turn the pot slowly anticlockwise until the green LED goes off and the red LED comes on. ▶ Turn the pot again slowly clockwise until the green LED comes on.
3	<p>If fluctuations as a result of the operating conditions are to be compensated for:</p> <ul style="list-style-type: none"> ▶ turn the pot further clockwise after the green LED has lit. 	

After application of the supply voltage both LEDs light for about 60 s, the output relay is energised (power-on delay time). The unit then is ready for operation.