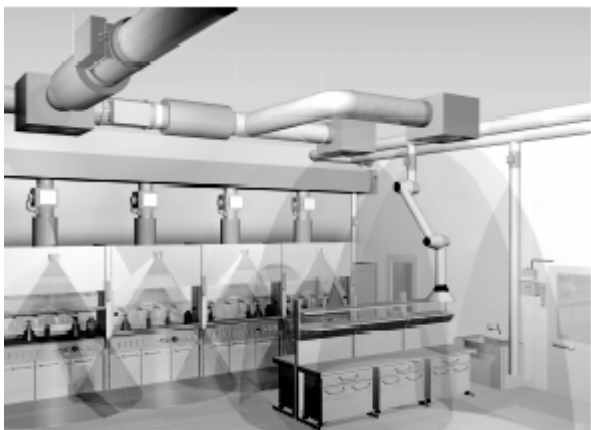


## Installation and commissioning instructions for velocity sensor FCC-E PIC TRM

MI-7.4/1/EN/1

Gebrüder Trox GmbH

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### Attention!

**Before installing and commissioning the FCC-E PIC TRM read this manual carefully!**

- **Intended use**  
The sensor is used for measuring the face velocity of fume hoods and is used with suitable volume flow controllers to regulate their variable flow.  
For this function the sensor is placed in a suitable position on the top of the hood. Please see the positioning diagram.
- **Safety instructions**  
The installation and wiring must be carried out by qualified personnel.  
During installation, wiring and commissioning, the established technical regulations, are to be observed, particularly those on safety and accident prevention.
- **Wiring**  
Electrical connection work must be carried out by qualified personnel only.  
The country-specific guidelines and regulations on electrical installations must be observed.  
  
The velocity sensor is supplied with pre-fabricated lead, 3m long. The plug must be fitted in the corresponding connector located on the TCU-(LON) II controller board.

### Technical data

**Power supply:** 24 VAC +/- 15 %, 50/60 Hz

**Temperature:** 10-40°C

**Output:**  
1 analogue output 2 – 10 V DC  
equivalent to 0 - 1 m/s

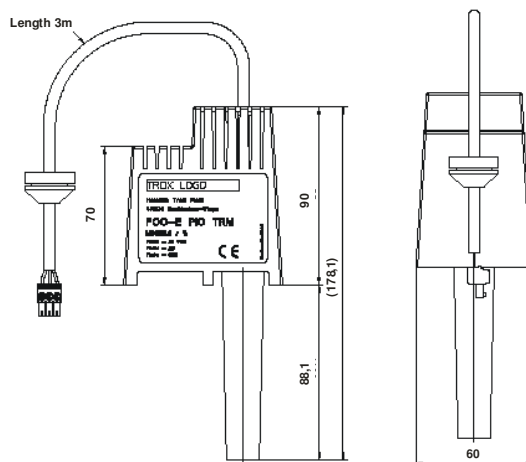
**Protection class:** IP 20

**Connector:**  
Phoenix MC 1,5/3-ST-3,81  
br (br) = 24 VAC  
ws (wt) = GND  
gn (gn) = AO

### Installation instructions

- Accessibility for future maintenance work must be given
- A hole of 21 - 22,5 mm Ø must be drilled in the top of the fume hood (see sketch)
- For positioning the hole please follow these instructions:
  1. There must be room for the sensor in this position.
  2. There must be an area of laminar air flow within the fume hood.
  3. The components should not be exposed to any air streams outside the fume hood (e.g. installation beneath ceiling diffusers).
  4. The components should not be installed inside pressure ceilings.

### Dimensions:



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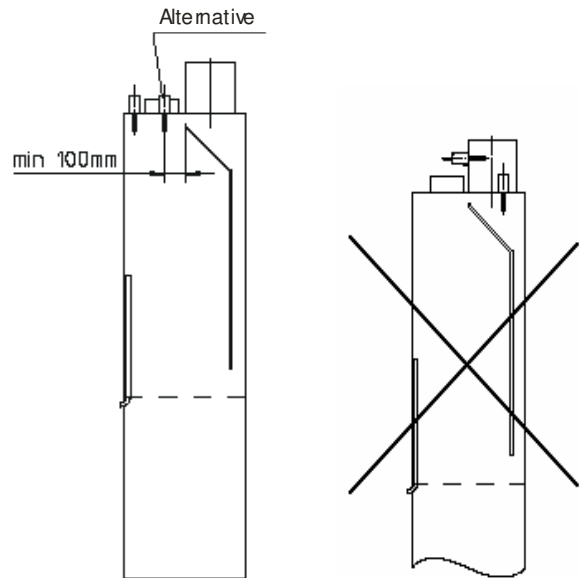
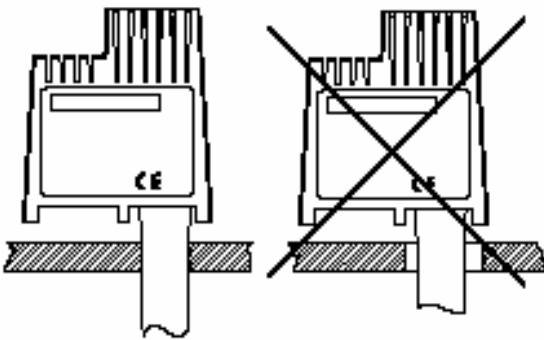
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### Note:

The unit should only be inserted in the drilled hole. The sensor does not need to rest on the fume hood. Never exceed the given diameter of the drilled hole! A larger hole could have a negative influence on the measurement!



The best position for the sensor can be seen in the sketches!

