

Airflow Monitor M2 compact (DC) TEACH IN



Function: One piece sensor for monitoring air flow with integrated evaluation. The calorimetric device allows working with his teach-in function of a maintenance-free operation. The factory-set flow limit of 3 m/s in the areas of building and engineering preferred, but can be adapted with its TEACH-IN button on the task.

Duo-LED: Green flashing = calibration mode
always green on = measured by air flow
red = air flow velocity overshoot / undershoot

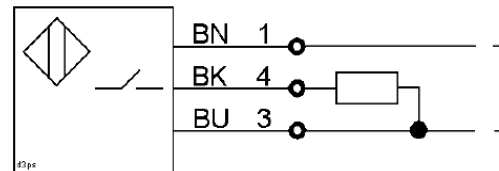
Signaling: PNP-NO contact closed

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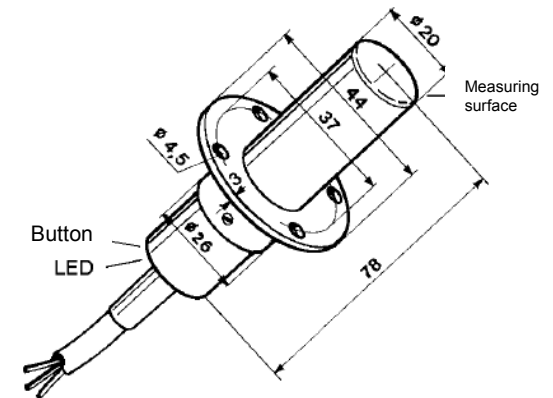
Technical data

| | |
|---|--------------------|
| Output | PNP-contact closed |
| Surveillance area | 1 - 16 m/s |
| Factory setting | 3 m/s |
| Response time max.. | 2 - 10 s |
| Time delay | 30 s |
| Operating voltage | 24 V DC |
| Load current max. | 0 - 200 mA |
| Short-circuit overcurrent safety | yes |
| Bias current | < 40 mA |
| Voltage drop | < 2 V |
| Hysteresis | max. 15 % |
| Ambient temperature | -10 bis +60 °C |
| Protection | IP 67 |
| Connection | 2 m Cable |
| Function display | Duo-LED red/green |
| Body material | Plastic |

Wiring diagram



Dimension sheet



The package includes the sensor, adapter jacks (or 60à20mm 38à20mm) and a mounting flange.

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Operation Instructions

The M2compact is adjusted to a flow velocity of 3 m/s. I. e. the switching output changes if the actual flow velocity falls below or exceeds this limit value. The yellow LED gives green when the output is controlled through and is under voltage (high level). The value adjusted in the factory is preferred in the branches of building technology and constructional engineering, however it can be set subsequently to values between 1 and 16 m/s.

1. Assembly

The M2 compact is assembled in such a way that the air flow reaches the plane measuring surface from any direction and at least 20 mm of the sensor head are in the medium flow. A flange for assembly is included in the scope of supply.

2. Application of the Supply Voltage (Pay attention to type plate!)

After applying the supply voltage (LED gives green flashing light) the output indicates existing flow for 30 seconds. After this delay for readiness the switching output (yellow LED) indicates the real condition of flow. The normally open version switches through and the LED gives green light when the limit value for flow is exceeded and opens if the flow falls below the set value (LED gives red light). (Inverse behaviour of normally close versions).

3. TEACH-IN

Expose the air flow controller to the flow in question for at least 5 minutes. Keep push-button pressed for 3 seconds, until the LED gives green blinking light. Now the sensor stores the new flow limit value permanently and independent from the mains supply. In order to avoid that normal changes in the flow during operation result in wrong switchings half the value of the flow in question is stored as limit value.

Example: Flow value 10 m/s; stored limited approximately 5 m/s.

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