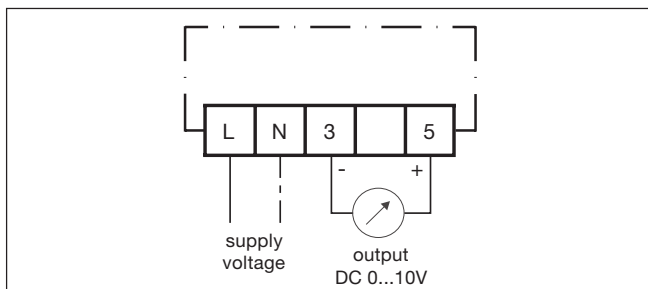


INT510[®] Air flow sensor

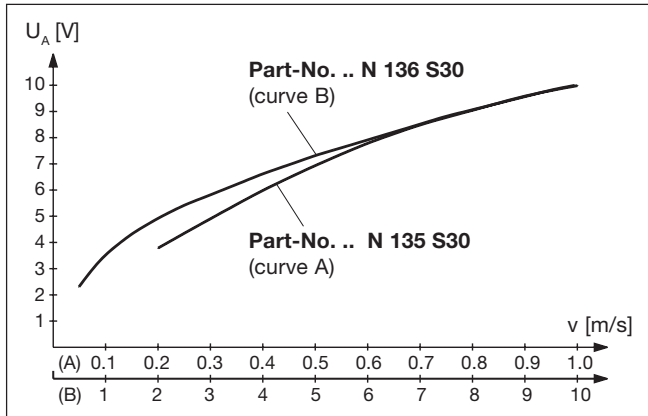
Monitoring range 0.2...1m/s or 0.2...10m/s



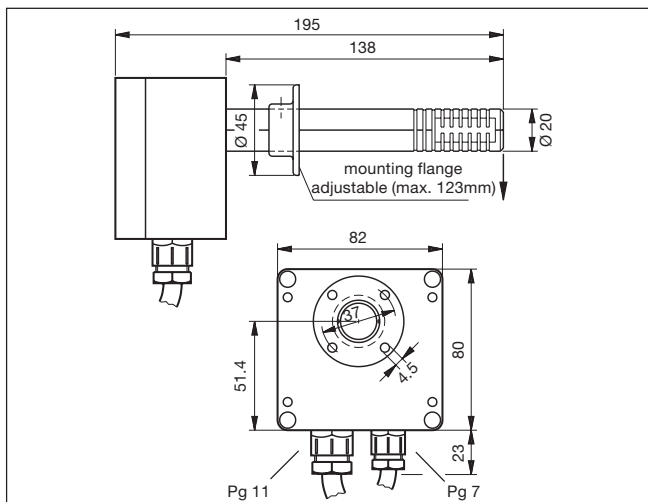
INT510



Connection diagram



Characteristic curve



Dimensions in mm

Application:

For monitoring the flow of gaseous media in the temperature range -5...+60°C. The probe is resistant against most aggressive media and temperature

Functional description:

The KRIWAN INT510 air-flow sensor measures air-flow velocities in the range 0.2...1 or 0.2...10m/s based on the calo-



The unit must be connected by trained electrical personnel. All valid standards for connecting electrical equipment must be observed. Limit values for the supply voltage of the unit may not be exceeded. Momentary voltage cut-offs or

Installation instruction:

To avoid measurement errors, please bear the following points in mind when selecting the mounting location:

- As far as possible mount the probe in laminar flow.
- Do not install directly behind bends (distance approx. 3 x bend radius).
- Install the probe in the middle of the duct where possible (distance at least 1/3 of the duct diameter from the wall).

compensated. The INT510 air flow sensor can be used for air conditioning and ventilation, clean rooms, building automation / DDC installation etc...

rimetric principle. An equivalent analogue voltage of DC 0...10V is available.

drop-outs cause measurement errors. Due to the calorimetric measuring principle used, sensible heat is produced. For this reason the probe is recommended only for flow velocities above about 0.2m/s.

- Do not install directly behind the heating register.
- Only use shielded cables for extending the connection.
- Avoid dirt deposits, especially any moistening with water, by suitable steps (filter in the ventilator system and so on).
- The achievable measuring tolerance is dependent on the installed position of the air flow sensor (see mark on the sensor).

Technical data

Supply voltage	see ordering information
Ambient temperature range	-5...+60°C
Monitoring range	0.2...1m/s (curve A) 0.2...10m/s (curve B)
Accuracy	± 8% of full range at 20°C
Output voltage	DC 0...11V max.
max. admissible velocity	35m/s
Build-up time after application of supply voltage	< 20s
Thermal time constant	< 5s
Mounting position of probe	arrow in flow direction
Housing	probe: PA6 GF30 terminal box: PC
Protection class acc. to EN 60529	probe: IP20 terminal box: IP65
Weight	approx. 400g

Ordering information

Range	Supply voltage	Part-No.
0.2...1m/s	AC 50/60Hz 24V ± 10% 3VA	31 N 135 S30
0.2...1m/s	AC 50/60Hz 230V ± 10% 3VA	52 N 135 S30
0.2...10m/s	AC 50/60Hz 24V ± 10% 3VA	31 N 136 S30
0.2...10m/s	AC 50/60Hz 230V ± 10% 3VA	52 N 136 S30

Subject to technical modifications without notice