

Series 553-001



AVENTICS™ Series 553-001



Air flow sensor, Series 553-001

- diaphragm principle

- Electrical connection Plug, M12x1, 8-pin, A-coded



Mounting orientation	Any
Working pressure min./max.	10 bar
Ambient temperature min./max.	5 ... 50 °C
Medium temperature min./max.	5 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m ³
Max. power consumption *)	300 mA
Response time	15 ms
Precision (% of full scale value)	See table below
Protection class	IP54
Weight	1.2 kg

Technical data

Part No.	Nominal flow Q _n	Precision (% of full scale value)
	Max., standard	
5530011000	250 l/min	± 3 %
5530011100	500 l/min	± 2 %
5530011200	1000 l/min	± 2 %

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

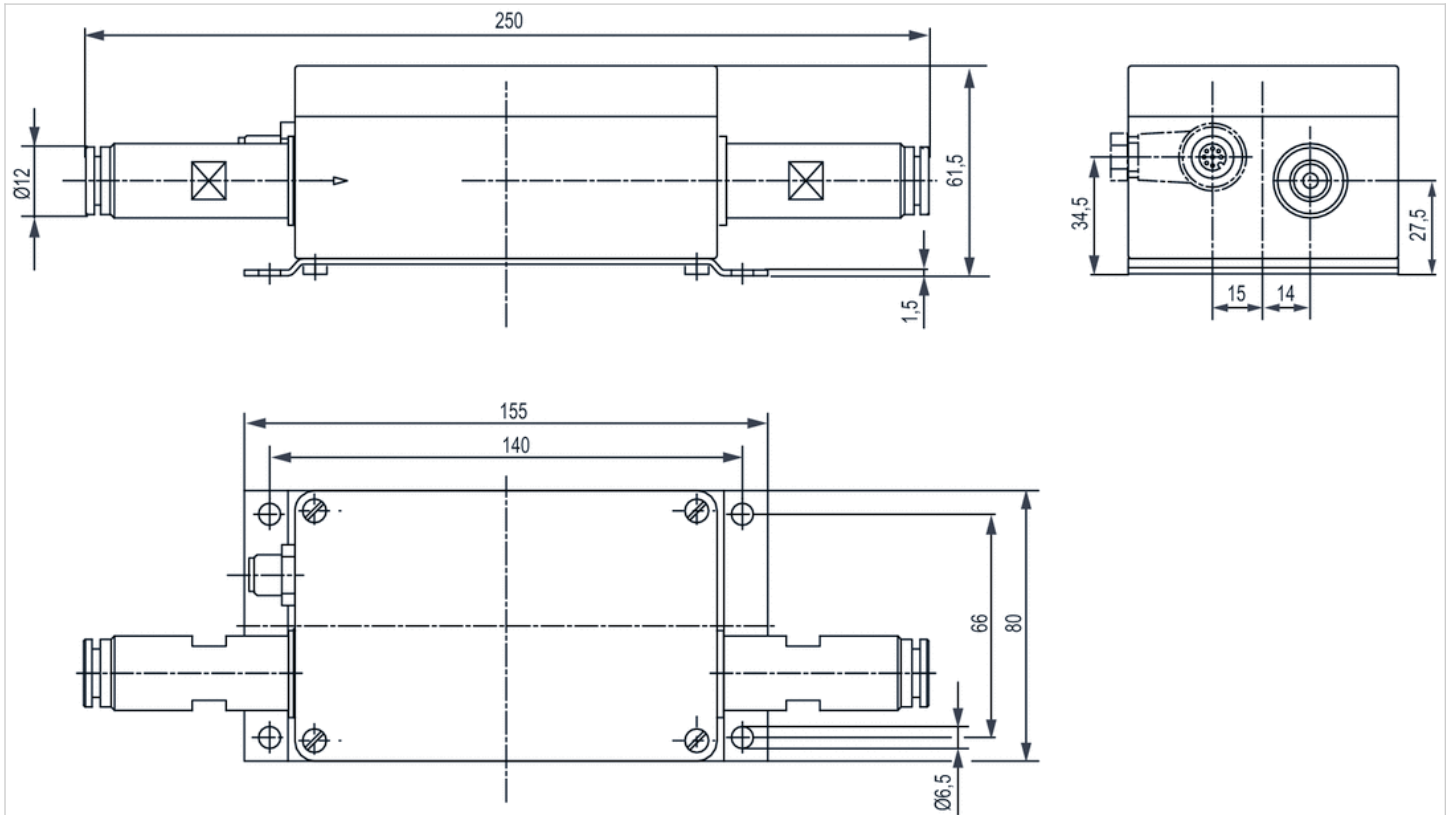
The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.

Technical information

Material	
Housing	Aluminum

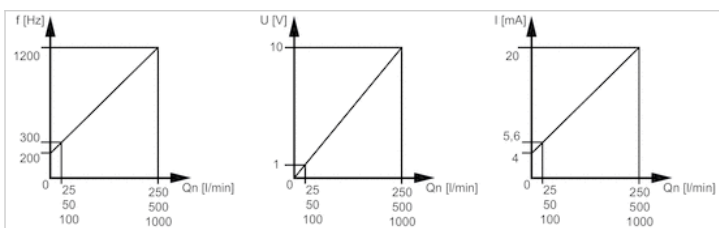
Dimensions

Dimensions



Diagrams

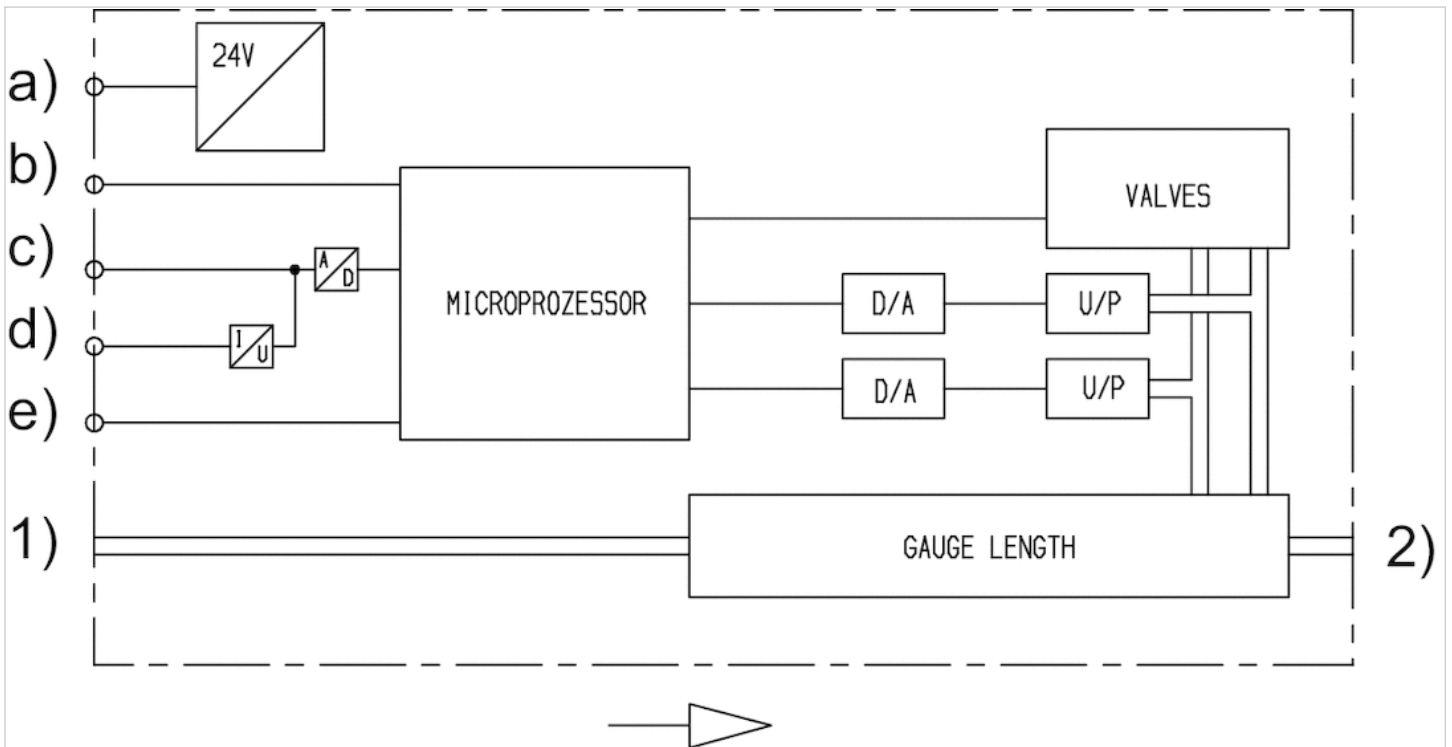
Characteristics



The output signal for the air flow sensor can be selected as a frequency signal, voltage or current. Shield is connected to plug body.

Circuit diagram

Functional diagram



a) supply voltage b) frequency output c) voltage output d) current output e) zero point adjustment
 1) Input 2) Output

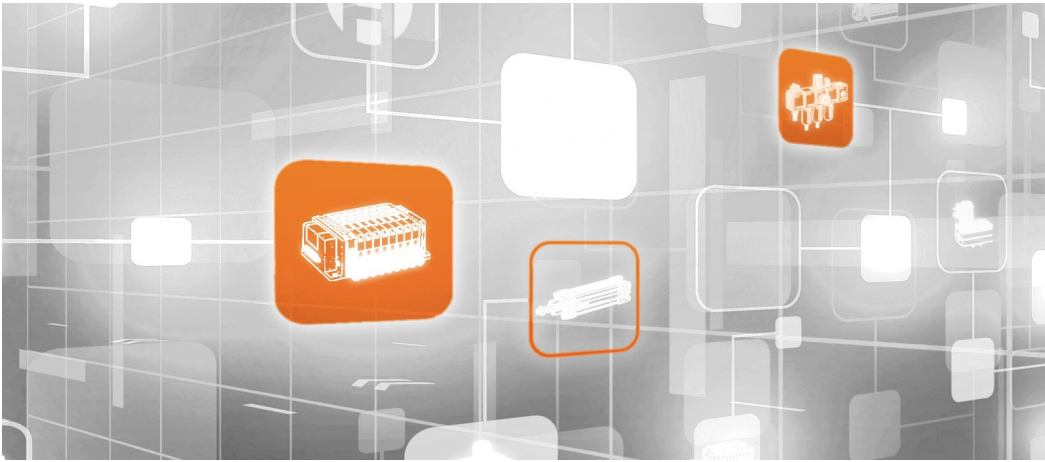
Pin assignments

Plug M12, 8-pin



Pin	1	2	3	4
Function status	Supply Voltage	0 V	frequency output	zero point adjustment
5	6	7	8	
Voltage output	current output +	current output -	protective ground PE	

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