

1.2 Air-mass sensors HFM with digital interface



Product type

HFM-7-IPH

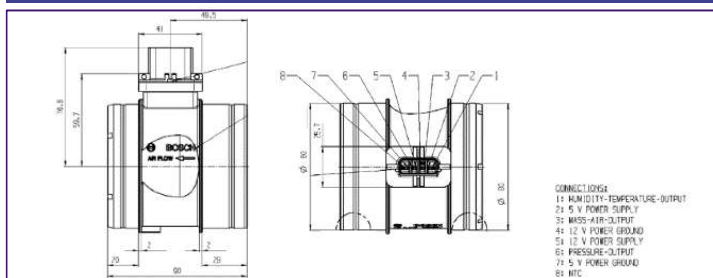
Part number

0 281 006 426

Picture



Dimensional drawings

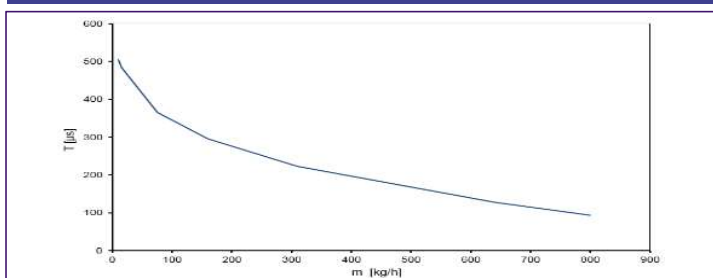


Technical data

Features	With integrated pressure, humidity and ambient-temperature sensor.	
Nominal airflow	\dot{m}_N	640 kg/h
Measuring range airflow	\dot{m}_N	-40 ... 800 kg/h
Measuring range pressure	kPa	12,5 ... 115
Measuring range humidity	%rH	10 ... 90
Rated supply voltage	U_N	14 V
Supply-voltage range	U_V	6 ... 17 V
Relative accuracy ¹⁾	$\Delta \dot{m} / \dot{m}$	± 5 %
Temperature range ²⁾	°C	-40 ... +120
Pressure drop at \dot{m}_N	Δp	< 12 hPa
Current input	I_V	< 0,06 A
Time constant	τ_{63} ³⁾	≤ 25 ms
Time constant	$\tau\Delta$ ⁴⁾	≤ 30 ms

- 1) for $0,04 \leq \Delta \dot{m} / \dot{m} \leq 1,3$
- 2) short-time (≤ 3 min.) to 130 °C
- 3) Time required for step response of output voltage to 63 % of final value given an abrupt change in air mass from 10 kg/h to 310 kg/h
- 4) Delay on switch-on and after any change in flow rate until the output voltage has attained the relative measurement deviation $|\Delta \dot{m} / \dot{m}| \leq 5 \%$.

Air-mass characteristic curve at ambient temperature



[▶ Product groups](#)