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Innovative Sensor Technology

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# FS5 Thermal Mass Flow Sensor Optimal for various gas flow applications up to 150 °C

## Benefits & Characteristics

- Easy adaptation in various applications and housings
- Simple signal processing
- Simple calibration
- No moving mechanical parts

### Illustration<sup>1)</sup>





Customer-specific sensor available upon request

Excellent reproducibility

Excellent long-term stability

1) For actual size, see dimensions

## Technical Data

Dimensions (L x W x H / H2 in mm):*	6.9 x 2.4 x 0.20 / 0.60 Ø 6.0 (±0.1) mm , $L_{\rm H}$ = 14 (±0.2) mm (complete dimensions in application note)
Operating measuring range:	0 m/s to 100 m/s
Response sensitivity:	0.01 m/s
Accuracy:	< 3 % of the measured value (dependent on the electronics and calibration)
Response time t <sub>63</sub> :	~160 ms (jump from 0 to 10000 sccm)
Operating temperature range:*	-20 °C to +150 °C
Temperature sensitivity:	< 0.1 %/K (dependent on the electronics)
Connection:*	3 pins, AWG 30/7, stranded wire, insulated with PTFE
Heater:*	$R_{H}(0 \ ^{\circ}C) = 45 \ \Omega \ \pm 1 \ \%$
Reference element:*	$R_{s}(0 \ ^{\circ}C) = 1200 \ \Omega \pm 1 \ \%$
Voltage range (nominal):*	2 V to 5 V (at $\Delta$ T = 30 K (0 m/s $\leq$ v <sub>gas</sub> $\leq$ 100 m/s)
Maximum heater voltage:*	3 V (at 0 m/s)
Alternative construction:*	Moulded plastic housing

\* Customer-specific alternatives available

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### Pin Assignment



## Product photos





With plastic housing

FS5.A.1L.195 103662 050.00128

## Order Information - 3 pins, stranded wire, AWG 30/7, PTFE insulated

Dimension (L x W x H in mm)	Without plastic housing
6.9 x 2.4 x 0.20	FS5.0.1L.195
Order code	103661
Former order code	050.00127
Ø 6.0 (±0.1) mm, L = 14 (±0.2) mm	
Order code	
Former order code	
Additional Electronics	

Additional Electronics				
	Document name:			
Module:	DFFS_FSL_Module_E			
Additional Documents				
	Document name:			

Application Note:

Document name: AFFS5\_E

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