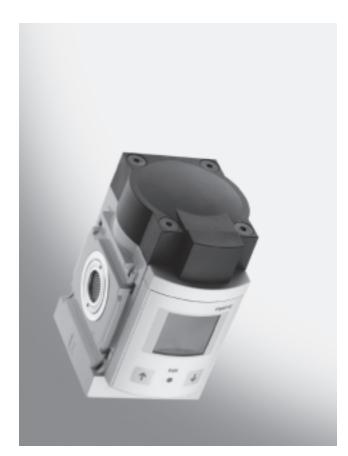
### Flow sensors MS6-SFE

Product overview





- Flow range 200 ... 5,000 l/min
- Switch outputs 2x PNP or 2x NPN
- Analogue output 0 ... 10 V or 4 ... 20 mA
- Freely selectable pulse output for consumption measurement
- Illuminated LCD display
- As an individual unit or for installation in MS series service unit combinations

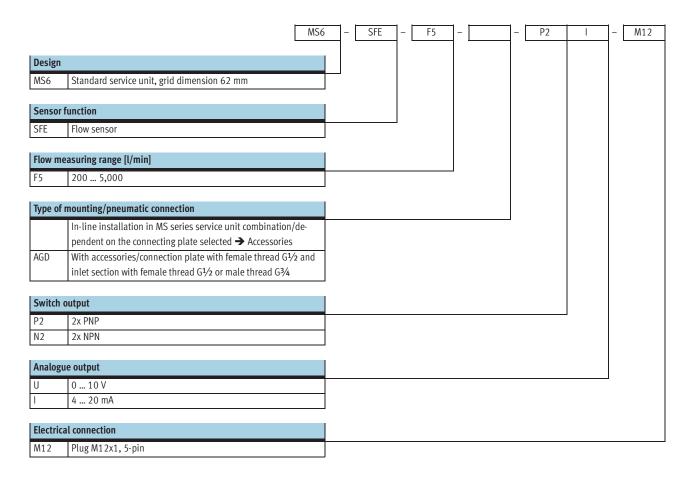
### Detailed product information

→ www.festo.com/catalogue/ms6-sfe

Product overview								
Method of measure-	Measured variable	Type of mounting	Flow measuring	Pneumatic connection	Pneumatic connection	Electrical output		
ment			range	1	2			
			[l/min]			Digital	Analogue	
Flow sensor, thermal	Individual device							
	Flow	Via accessories	200 5,000	G½, G¾1)	G½	2x PNP	0 10 V	
	Consumption						4 20 mA	
						2x NPN	0 10 V	
							4 20 mA	
	In MS series service unit combination							
	Flow	In-line installation	200 5,000	G½, G¾ <sup>2)</sup>	G <sup>1</sup> /2, G <sup>3</sup> /4 <sup>2)</sup>	2x PNP	0 10 V	
	Consumption						4 20 mA	
						2x NPN	0 10 V	
							4 20 mA	

Inlet section with female thread G½ and male thread G¾
 Dependent on connecting plate selected, must be ordered separately as an accessory → 4

Type codes



# Flow sensors MS6-SFE





Technical data					
	Individual device	In MS series service unit combination			
Design					
Flow measuring range [l/min]	200 5,000 <sup>1)</sup>				
Pneumatic connection 1	G½, G¾ <sup>2</sup> )				
Pneumatic connection 2	G <sup>1</sup> / <sub>2</sub>	G½, G¾³)			
Type of display	Illuminated LCD (optimised display)				
Accuracy <sup>4)</sup>	+/- (3% o.m.v. + 0.3% FS)				
Electrical data					
Switch output	2x PNP				
	2x NPN				
Analogue output [V]	0 10				
[mA]	4 20				
Switching element function	N/O contact				
	N/C contact				
Switching function	Threshold value with variable hysteresis				
	Window comparator				
Operating voltage range DC [V]	15 30				
Max. output current [mA]	≤ 100				
Electrical connection	Straight plug, M12x1, 5-pin				
Protection against short circuit	Yes				
Protection class	IP65				
Operating and environmental conditions					
Operating pressure [bar]	0 16				
Operating medium	Filtered compressed air, unlubricated, grade of filtration 40µm				
	Nitrogen				
Air quality class 5:4:3 to DIN ISO 8573-1					
Ambient temperature [°C]	0 50				
CE mark (see declaration of conformity)	In accordance with EU EMC directive				
Certification	C-Tick				
Materials					
Housing	Die-cast aluminium, reinforced polyamide				

- Restricted at operating pressure < 5 bar, diagram → WWW.festo.com
   Inlet section with female thread G½ and male thread G¾
   Dependent on connecting plate selected, must be ordered separately as an accessory → 4
- 4) % o.m.v. = % of measured value

  % FS = % of measuring range's final value (full scale)

Ordering data							
Variant	Flow measuring	Analogue output	Switch output				
	range		2x PNP		2x NPN		
	[l/min]		Part No.	Туре	Part No.	Туре	
Individual device							
	200 5,000	0 10 V	538 418	MS6-SFE-F5-AGD-P2U-M12	538 420	MS6-SFE-F5-AGD-N2U-M12	
		4 20 mA	538 417	MS6-SFE-F5-AGD-P2I-M12	538 419	MS6-SFE-F5-AGD-N2I-M12	
In MS series service unit comb	oination						
	200 5,000	0 10 V	538 422	MS6-SFE-F5-P2U-M12	538 424	MS6-SFE-F5-N2U-M12	
		4 20 mA	538 421	MS6-SFE-F5-P2I-M12	538 423	MS6-SFE-F5-N2I-M12	

## Flow sensors MS6-SFE

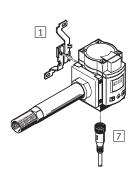
Peripherals overview, sample applications

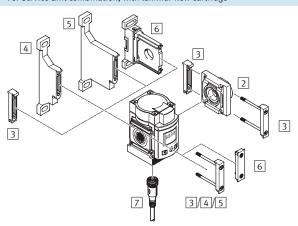


### Peripherals overview

Individual device, with connecting plates and stabilizing attachment

For service unit combination, with laminar flow cartridge





Acce	ssories
1	Mounting bracket MS6-WB
2	Connecting plate MS6-AG
	(included in scope of delivery for individual unit)
3	Module connector MS6-MV

Acce	Accessories				
4	Mounting bracket MS6-WP				
5	Mounting bracket MS6-WPB				
6	Mounting bracket MS6-WPM				
7	Connecting cable NEBU-M12G5				

Ordering data – Mounting attachments				
	Part No.	Туре		
C	532 196	MS6-WB		
	526 082	MS6-AGD		
	526 083	MS6-AGE		
00 00	532 799	MS6-MV		
	532 195	MS6-WP		
	526 074	MS6-WPB		
	526 073	MS6-WPM-D		
	532 186	MS6-WPM-2D		

Ordering data - Connecting cables					
		1	「echnical data → Internet: nebu		
		Part No.	Туре		
M12x1, straight socket					
5	2.5	541 330	NEBU-M12G5-K-2.5-LE5		
	5	5/1 331	NEBU-M12G5-K-5-LE5		
١	lumber of wires	Number   Cable   If wires   length [m]   Socket	Number Cable Part No. of wires length [m] socket 2.5 541 330		