- Type discontinued

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, G¾2)	G½, G¾2)	2x PNP	0 10 V		
	Consumption						4 20 mA		
						2x NPN	0 10 V		
							4 20 mA		

¹⁾ Inlet section with female thread $G^{1/2}$ and male thread $G^{3/4}$

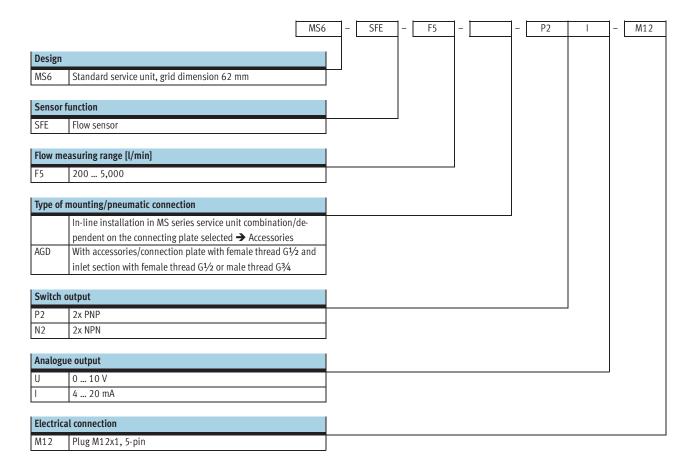
²⁾ Dependent on connecting plate selected, must be ordered separately as an accessory > 4

- Type discontinued

Flow sensors MS6-SFE

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Type codes



- Type discontinued

Flow sensors MS6-SFE

Technical data



Technical data							
		Individual device	In MS series service unit combination				
Design							
Flow measuring range	[l/min]	200 5,000 ¹⁾					
Pneumatic connection 1		G½, G¾2) G½, G¾3)					
Pneumatic connection 2		G ¹ / ₂	G½, G¾3)				
Type of display		Illuminated LCD (optimised display)					
Accuracy ⁴⁾		+/- (3% o.m.v. + 0.3% FS)					
Electrical data							
Switch output		2x PNP					
Switch output		2x NPN					
Analogue output	[V]	0 10					
7 matogae output	[mA]	4 20					
Switching element function	ţq	N/O contact					
		N/C contact					
Switching function		Threshold value with variable hysteresis					
Ü		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 co	nditions						
Operating pressure	[bar]	0 16					
Operating medium	[nai]	Filtered compressed air, unlubricated, grade of filtration 40µm					
Operating medium		Nitrogen					
		Air quality class 5:4:3 to DIN ISO 8573-1					
mbient temperature [°C] 0 50							
CE mark (see declaration of confe	. ,	In accordance with EU EMC directive					
Certification		C-Tick					
Certification		C non					
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
- 3) 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	· · · · · · · · · · · · · · · · · · ·					
	range				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			T					
	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		

- Type discontinued

Flow sensors MS6-SFE

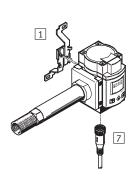
Peripherals overview, sample applications

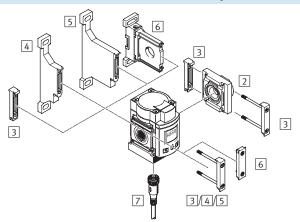
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Peripherals overview

Individual device, with connecting plates and stabilizing attachment

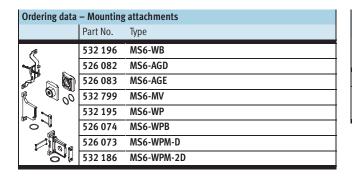
For service unit combination, with laminar flow cartridge





Acce	Accessories					
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 - Connecting cables							
				Technical data → Internet: nebu			
	Number	Cable	Part No.	Туре			
	of wires	length [m]					
M12x1, straight socket							
	5	2.5	541 330	NEBU-M12G5-K-2.5-LE5			
6		5	541 331	NEBU-M12G5-K-5-LE5			