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 out	tput
ment			range	1	2		
			[l/min]			Digital	Analogue
Flow sensor, thermal Individual device							
	Flow	Via accessories	200 5,000	G½, G¾1)	G ¹ / ₂	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)	G ¹ /2, G ³ /4 ²⁾	2x PNP	0 10 V
	Consumption						4 20 mA
						2x NPN	0 10 V
							4 20 mA

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Inlet section with female thread G½ and male thread G¾
 Dependent on connecting plate selected, must be ordered separately as an accessory → 114

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Flow sensors MS6-SFE

Technical data

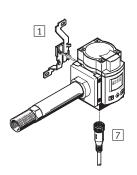
Technical data						
		Individual device	In MS series service unit combination			
Design						
Flow measuring range	[l/min]	200 5,000 ¹⁾				
Pneumatic connection 1		G½, G¾ ²	G½, G¾ ³⁾			
Pneumatic connection 2		G½	G½, G¾³)			
Type of display		Illuminated LCD (optimised display)				
Accuracy ⁴⁾		+/- (3% o.m.v. + 0.3% FS)				
Electrical data						
Switch output		2x PNP				
Switch output		2X PNP				
Analogue output	[V]	0 10				
Anatogue output	[mA]					
Switching element function	[III/J	4 20 N/O contact				
Switching element function		N/C contact				
Switching function		Threshold value with variable hysteresis				
Switching function		Window comparator				
Operating voltage range DC	D/I	15 30				
Max. output current	[V] [mA]	≤ 100				
Electrical connection	[IIIA]	Straight plug, M12x1, 5-pin				
Protection against short circuit		Straight plug, M12x1, 5-pin				
Protection class		IP65				
1 Totection class		11 03				
Operating and environmental cond	itions					
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 conform	nity)	In accordance with EU EMC directive				
Certification		C-Tick				
		•				
Materials						
Housing		Die-cast aluminium, reinforced polyamide				

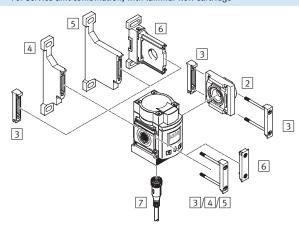
- Restricted at operating pressure < 5 bar, diagram → www.festo.com
 Inlet section with female thread G½ and male thread G¾
 Dependent on connecting plate selected, must be ordered separately as an accessory → 114
 % o.m.v. = % of measured value
 % FS = % of measuring range's final value (full scale)

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	

Individual device, with connecting plates and stabilizing attachment

For service unit combination, with laminar flow cartridge





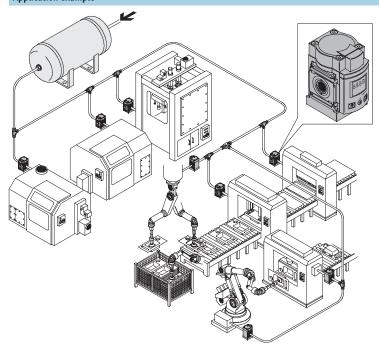
	Accessories				
ı	1	Mounting bracket MS6-WB			
ı	2	Connecting plate MS6-AG			
ı		(included in scope of delivery for individual unit)			
ı	3	Module connector MS6-MV			

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		
	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 Technical data →					
	Number	Cable	Part No.	Type	
	of wires	length [m]			
M12x1, straight socket					
1	5	2.5	541 330	NEBU-N	12G5-K-2.5-LE5

Application example



• Compressed air consumption and function monitoring of various systems in the production process

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