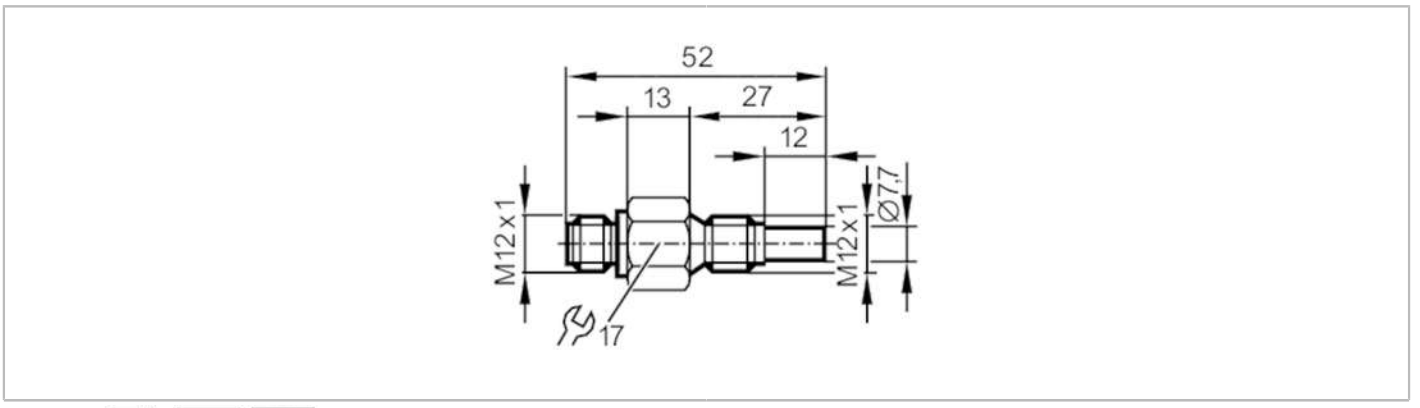
SF120A

Flow sensor for connection to an evaluation unit

SFM12ABB/US/2G



Product characteristics			
Probe length L	[mm]	12	
Process connection		threaded connection M12 x 1 external thread	
Application			
Media		Liquids; Gases	
Medium temperature	[°C]	-20...70	
Pressure rating		30 bar	3 MPa
Liquids			
Medium temperature	[°C]	-20...70	
Gases			
Medium temperature	[°C]	-20...70	
Electrical data			
Connection to control monitor		VS2000 Exi (PTB 01 ATEX 2075)	
Measuring/setting range			
Probe length L	[mm]	12	
Liquids			
Setting range	[cm/s]	3...300	
Greatest sensitivity	[cm/s]	3...60	
Gases			
Setting range	[cm/s]	200...2000	
Greatest sensitivity	[cm/s]	200...800	
Accuracy / deviations			
Temperature gradient	[K/min]	15	
Response times			
Response time	[s]	1...10	
Liquids			
Response time	[s]	1...10	
Gases			
Response time	[s]	1...10	

SF120A

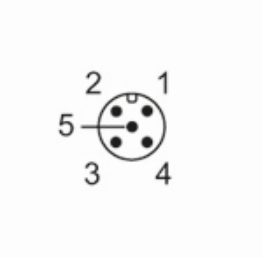
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Operating conditions			
Ambient temperature	[°C]	-20...70	
Protection		IP 67	
Tests / approvals			
Approval		DMT 03 ATEX E091; IECEX BVS 06.0007	
ATEX marking		II 2G Ex ia IIC T4 Gb	
Shock resistance		DIN IEC 68-2-27	40 g (11 ms)
Vibration resistance		DIN IEC 68-2-6	10 g (55...2000 Hz)
MTTF	[years]	8648	
Safety classification			
Max. internal capacitance	[nF]	0.4	
Max. internal inductance	[µH]	2	
Temperature class		T4	
Mechanical data			
Weight	[g]	111.5	
Housing		cylindrical	
Materials		stainless steel (316L/1.4404)	
Materials (wetted parts)		stainless steel (316L/1.4404)	
Process connection		threaded connection M12 x 1 external thread	
Probe diameter	[mm]	7.7	
Installation length EL	[mm]	27	
Remarks			
Remarks		In principle, the type test according to 94/9/EC (ATEX) only takes atmospheric conditions into account (0.8...1.1 bar). For pressures outside this range use must be assessed and approved by the user. Adhere to the operating instructions and the type test certificate.	
Pack quantity		1 pcs.	

Electrical connection

Connector: 1 x M12; coding: A; Maximum cable length: 100 m

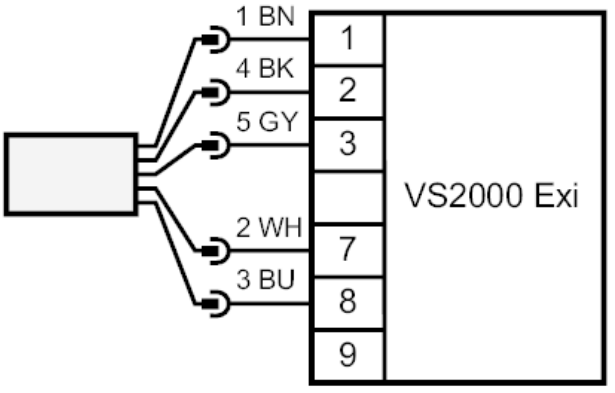


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Connection



	Core colours :
BN =	brown
BU =	blue
BK =	black
WH =	white
GY =	grey