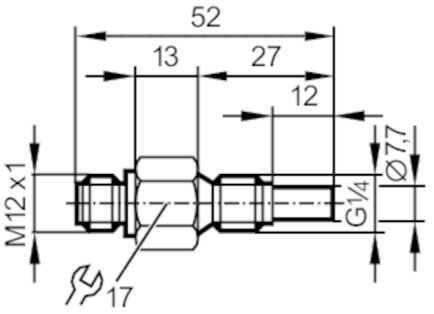
SF220A

Flow sensor for connection to an evaluation unit

SFR14ABB/US/2G



Product characteristics		
Probe length L	[mm]	12
Process connection		G 1/4 external thread
Application		
Media		Liquids; Gases
Medium temperature	[°C]	-20...70
Pressure rating	[bar]	30
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

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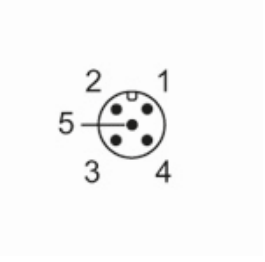
Operating conditions			
Ambient temperature	[°C]	-20...70	
Protection		IP 67	
Tests / approvals			
Approval		DMT 03 ATEX E091; IECEX BVS 06.0007	
ATEX marking		II 2G Ex ia IIC T4 Gb	
Shock resistance		DIN IEC 68-2-27	40 g (11 ms)
Vibration resistance		DIN IEC 68-2-6	10 g (55...2000 Hz)
MTTF	[years]	8648	
Safety classification			
Max. internal capacitance	[nF]	0.4	
Max. internal inductance	[µH]	2	
Temperature class		T4	
Mechanical data			
Weight	[g]	113	
Housing		threaded type	
Materials		stainless steel (1.4404 / 316L)	
Materials (wetted parts)		stainless steel (1.4404 / 316L)	
Process connection		G 1/4 external thread	
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; Maximum cable length: 100 m



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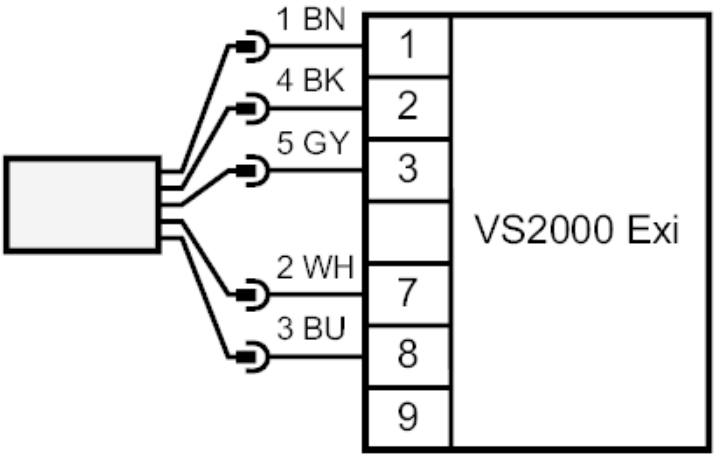
Connection



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