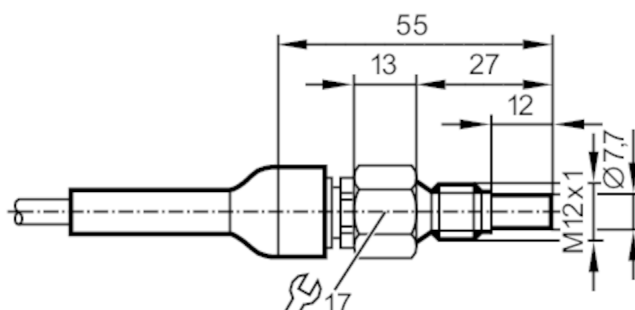


# SF121A



## Flow sensor for connection to an evaluation unit

SFM12ABB/2G /6M



### Product characteristics

Probe length L	[mm]	12
Process connection		M12 x 1

### 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
---------------	-----	--------

# SF121A



## Flow sensor for connection to an evaluation unit

SFM12ABB/2G /6M

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]	1.2
Max. internal inductance	[µH]	6
Temperature class		T4
Mechanical data		
Weight	[g]	346
Housing		threaded type
Dimensions	[mm]	M12 x 1
Thread designation		M12 x 1
Materials		stainless steel (316L/1.4404)
Materials (wetted parts)		stainless steel (316L/1.4404)
Process connection		M12 x 1
Installation length EL	[mm]	27
Remarks		
Remarks		<p>In principle, the type test according to 94/9/EC (ATEX) only takes atmospheric conditions into account (0.8...1.1 bar).</p> <p>For pressures outside this range use must be assessed and approved by the user.</p> <p>Adhere to the operating instructions and the type test certificate.</p>
Pack quantity		1 pcs.

# SF121A



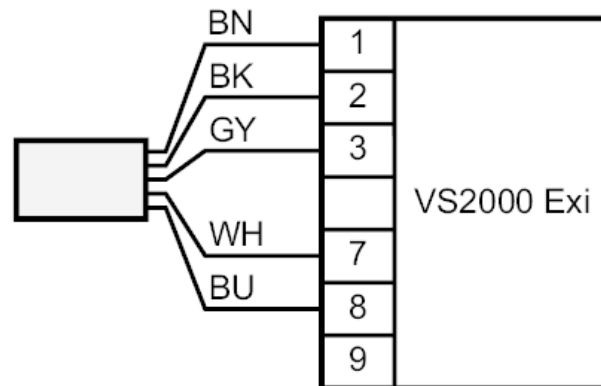
## Flow sensor for connection to an evaluation unit

SFM12ABB/2G /6M

### Electrical connection

Cable: 6 m, TPE-S; Maximum cable length: 100 m; 5 x 0.34 mm<sup>2</sup>

### Connection



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