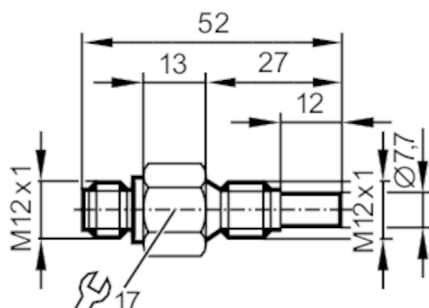


# SF120A



## Flow sensor for connection to an evaluation unit

SFM12ABB/US/2G



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

# SF120A



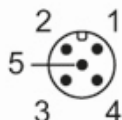
## Flow sensor for connection to an evaluation unit

SFM12ABB/US/2G

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		threaded type
Dimensions	[mm]	M12 x 1
Thread designation		M12 x 1
Materials		stainless steel (1.4404 / 316L)
Materials (wetted parts)		stainless steel (1.4404 / 316L)
Process connection		M12 x 1
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



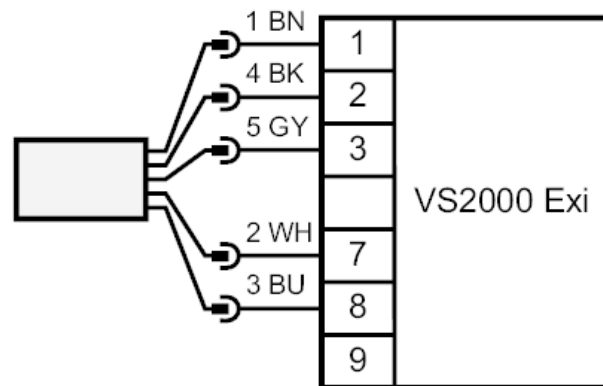
# SF120A



## Flow sensor for connection to an evaluation unit

SFM12ABB/US/2G

### Connection



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