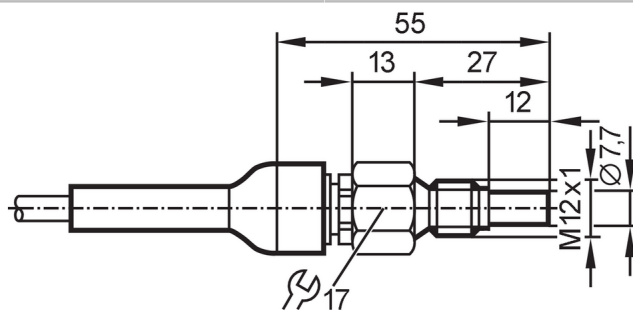


# SF121A



## Flow sensor for connection to an evaluation unit

SFM12ABB/2G /6M



### 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

|                                     |         |    |
|-------------------------------------|---------|----|
| Max. temperature gradient of medium | [K/min] | 15 |
|-------------------------------------|---------|----|

### Reaction times

|               |     |        |
|---------------|-----|--------|
| Response time | [s] | 1...10 |
|---------------|-----|--------|

#### Liquids

|               |     |        |
|---------------|-----|--------|
| Response time | [s] | 1...10 |
|---------------|-----|--------|

#### Gases

|               |     |        |
|---------------|-----|--------|
| Response time | [s] | 1...10 |
|---------------|-----|--------|

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -20...70 |
|---------------------|------|----------|

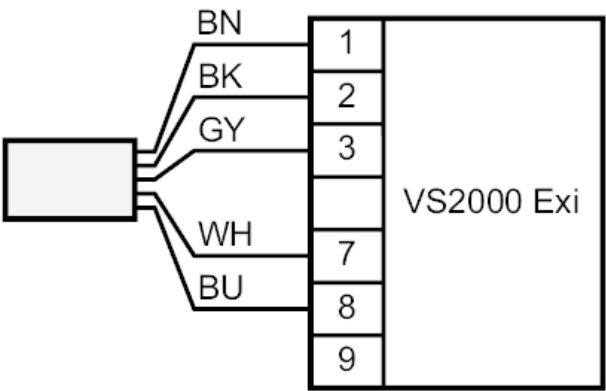
# SF121A



## Flow sensor for connection to an evaluation unit

SFM12ABB/2G /6M

|                                                              |                                                                                                                         |                                             |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 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                                                      |                                                                                                                         | tubular                                     |
| Material                                                     |                                                                                                                         | stainless steel (1.4404 / 316L)             |
| Materials (wetted parts)                                     |                                                                                                                         | stainless steel (1.4404 / 316L)             |
| 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                                        |                                                                                                                         |                                             |
| Cable: 6 m, TPE-S; Maximum cable length: 100 m; 5 x 0.34 mm² |                                                                                                                         |                                             |
| Connection                                                   |                                                                                                                         |                                             |



|      |               |
|------|---------------|
|      | Core colors : |
| BN = | brown         |
| BU = | blue          |
| BK = | black         |
| WH = | white         |
| GY = | grey          |