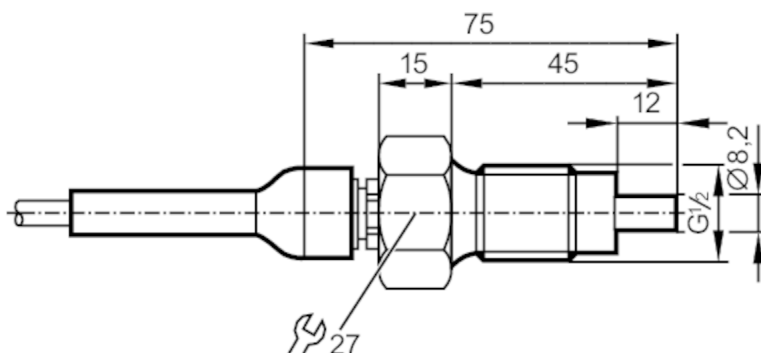


# SF311A



## Flow sensor for connection to an evaluation unit

SFR12ADB/1/2G /6M



### Product characteristics

|                    |      |                       |
|--------------------|------|-----------------------|
| Probe length L     | [mm] | 12                    |
| Process connection |      | G 1/2 external thread |

### Application

|                    |       |                |
|--------------------|-------|----------------|
| Media              |       | Liquids; Gases |
| Medium temperature | [°C]  | -20...60       |
| Pressure rating    | [bar] | 300            |

#### Liquids

|                    |      |          |
|--------------------|------|----------|
| Medium temperature | [°C] | -20...60 |
|--------------------|------|----------|

#### Gases

|                    |      |          |
|--------------------|------|----------|
| Medium temperature | [°C] | -20...60 |
|--------------------|------|----------|

### 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 |
|---------------|-----|--------|

# SF311A



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SFR12ADB/1/2G /6M

| Operating conditions      |                 |   |
|---------------------------|-----------------|---|
| Ambient temperature       | [°C]            | -20...60  |
| Storage temperature       | [°C]            | -20...85  |
| Protection                |                 | IP 67   |
| Tests / approvals         |                 |   |
| Approval                  |                 | DMT 03 ATEX E 090 X; TIIS TC17434; IECEx BVS 11.0017 X  |
| ATEX marking              |                 |  II 1/2G Ex ia IIC T4 Ga/Gb4           |
| Shock resistance          | DIN IEC 68-2-27 | 40 g (11 ms)  |
| Vibration resistance      | DIN IEC 68-2-6  | 10 g (55...2000 Hz)   |
| MTTF                      | [ANN]           | 8648  |
| Safety classification     |                 |   |
| Max. internal capacitance | [nF]            | 1.2   |
| Max. internal inductance  | [µH]            | 6   |
| Temperature class         |                 | T4  |
| Mechanical data           |                 |   |
| Weight                    | [g]             | 467   |
| Housing                   |                 | threaded type   |
| Materials                 |                 | stainless steel (1.4404 / 316L)   |
| Materials (wetted parts)  |                 | stainless steel (1.4404 / 316L)   |
| Process connection        |                 | G 1/2 external thread   |
| Installation length EL    | [mm]            | 45  |
| 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.  |

# SF311A



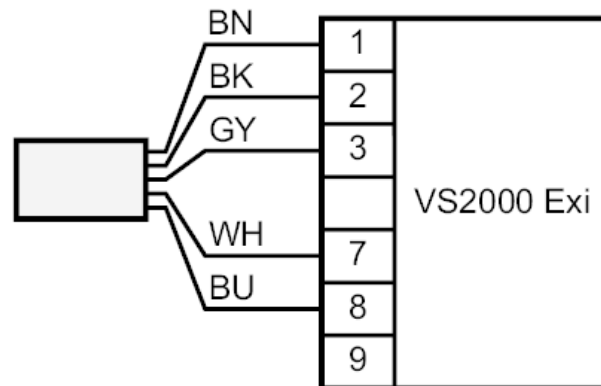
## Flow sensor for connection to an evaluation unit

SFR12ADB/1/2G /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