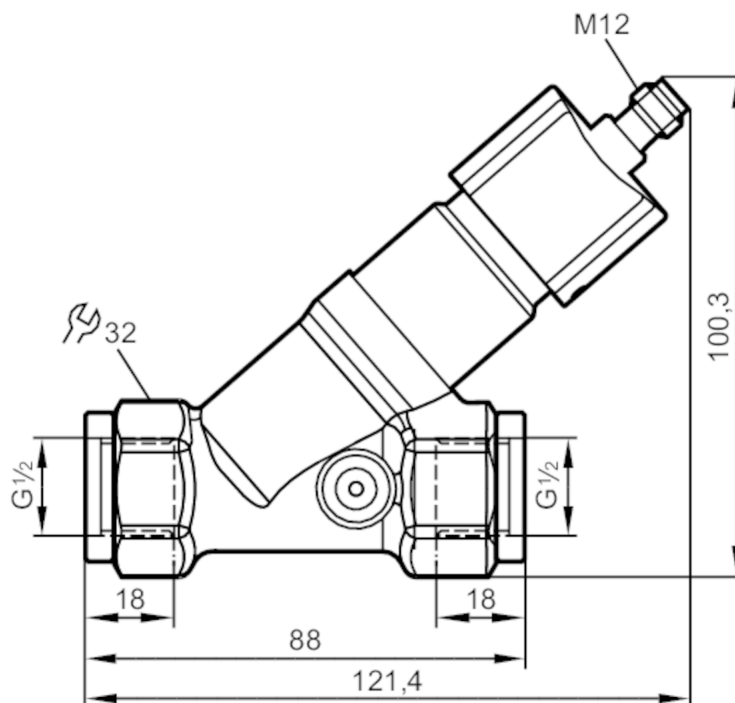


# SBG433



## Flow transmitter with integrated backflow prevention

SBG12HF010KG/US



### Application

|                    |                                                  |           |
|--------------------|--------------------------------------------------|-----------|
| Media              | Liquids; water; glycol solutions; oils; coolants |           |
| Medium temperature | [°C]                                             | -10...100 |
| Pressure rating    | [bar]                                            | 40        |

### Electrical data

|                             |      |                            |
|-----------------------------|------|----------------------------|
| Operating voltage           | [V]  | 18...32 DC; (to SELV/PELV) |
| Current consumption         | [mA] | < 35                       |
| Protection class            |      | III                        |
| Reverse polarity protection |      | yes                        |

### Outputs

|                          |                 |        |
|--------------------------|-----------------|--------|
| Output signal            | analogue signal |        |
| Analogue current output  | [mA]            | 4...20 |
| Max. load                | [Ω]             | 500    |
| Short-circuit protection |                 | yes    |
| Overload protection      |                 | yes    |

### Measuring/setting range

|                 |         |        |
|-----------------|---------|--------|
| Measuring range | [l/min] | 1...25 |
|-----------------|---------|--------|

### Accuracy / deviations

|                 |                        |  |
|-----------------|------------------------|--|
| Repeatability   | 1                      |  |
|                 | [% of the final value] |  |
| Measuring error | ± 5                    |  |
|                 | [% of the final value] |  |

# SBG433



## Flow transmitter with integrated backflow prevention

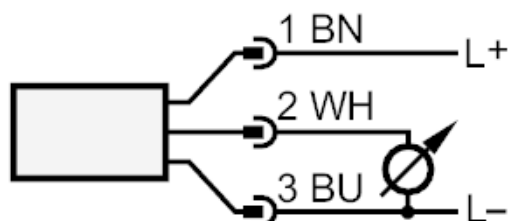
SBG12HF010KG/US

| Response times                                                                      |                                                                                             |                    |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------|
| Response time                                                                       | [s]                                                                                         | < 0.01             |
| Operating conditions                                                                |                                                                                             |                    |
| Ambient temperature                                                                 | [°C]                                                                                        | 0...60             |
| Storage temperature                                                                 | [°C]                                                                                        | -15...80           |
| Protection                                                                          |                                                                                             | IP 65; IP 67       |
| Tests / approvals                                                                   |                                                                                             |                    |
| EMC                                                                                 | DIN EN 61000-6-2                                                                            |                    |
|                                                                                     | DIN EN 61000-6-3                                                                            |                    |
| Shock resistance                                                                    | DIN EN 60068-2-27                                                                           | 20 g (11 ms)       |
| Vibration resistance                                                                | DIN EN 60068-2-6                                                                            | 5 g (10...2000 Hz) |
| Mechanical data                                                                     |                                                                                             |                    |
| Weight                                                                              | [g]                                                                                         | 541.8              |
| Materials                                                                           | brass chemically nickel-plated; PP; stainless steel (1.4404 / 316L); aluminium anodised; PA |                    |
| Materials (wetted parts)                                                            | stainless steel (1.4401 / 316); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKM |                    |
| Process connection                                                                  | G 1/2                                                                                       |                    |
| Switching cycles mechanical                                                         | 10 million                                                                                  |                    |
| Remarks                                                                             |                                                                                             |                    |
| Remarks                                                                             | Recommendation Use 200 micron filtration                                                    |                    |
|                                                                                     | All data refer to water (20 °C).                                                            |                    |
| Pack quantity                                                                       | 1 pcs.                                                                                      |                    |
| Electrical connection                                                               |                                                                                             |                    |
| Connector: 1 x M12                                                                  |                                                                                             |                    |
|  |                                                                                             |                    |

## Flow transmitter with integrated backflow prevention

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### Connection



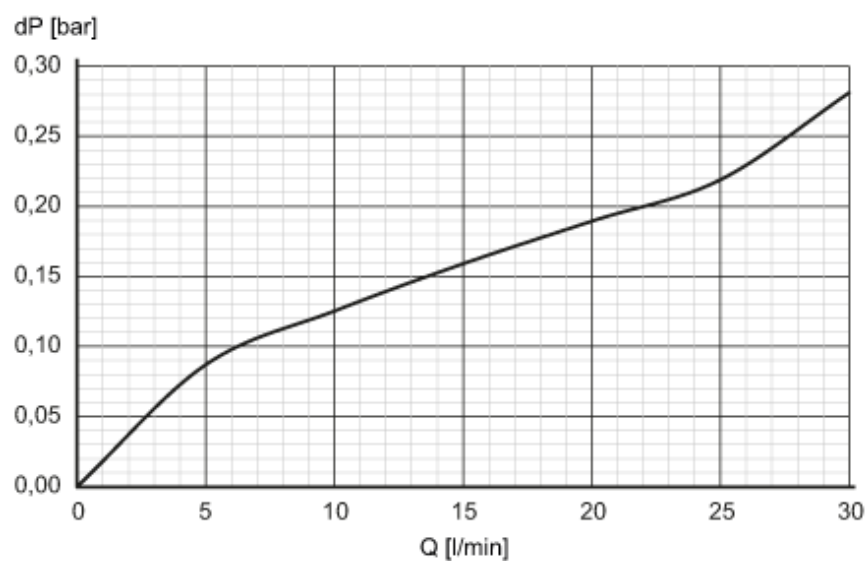
colours to DIN EN 60947-5-2

Core colours :

BN = brown  
BU = blue  
WH = white

### Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity