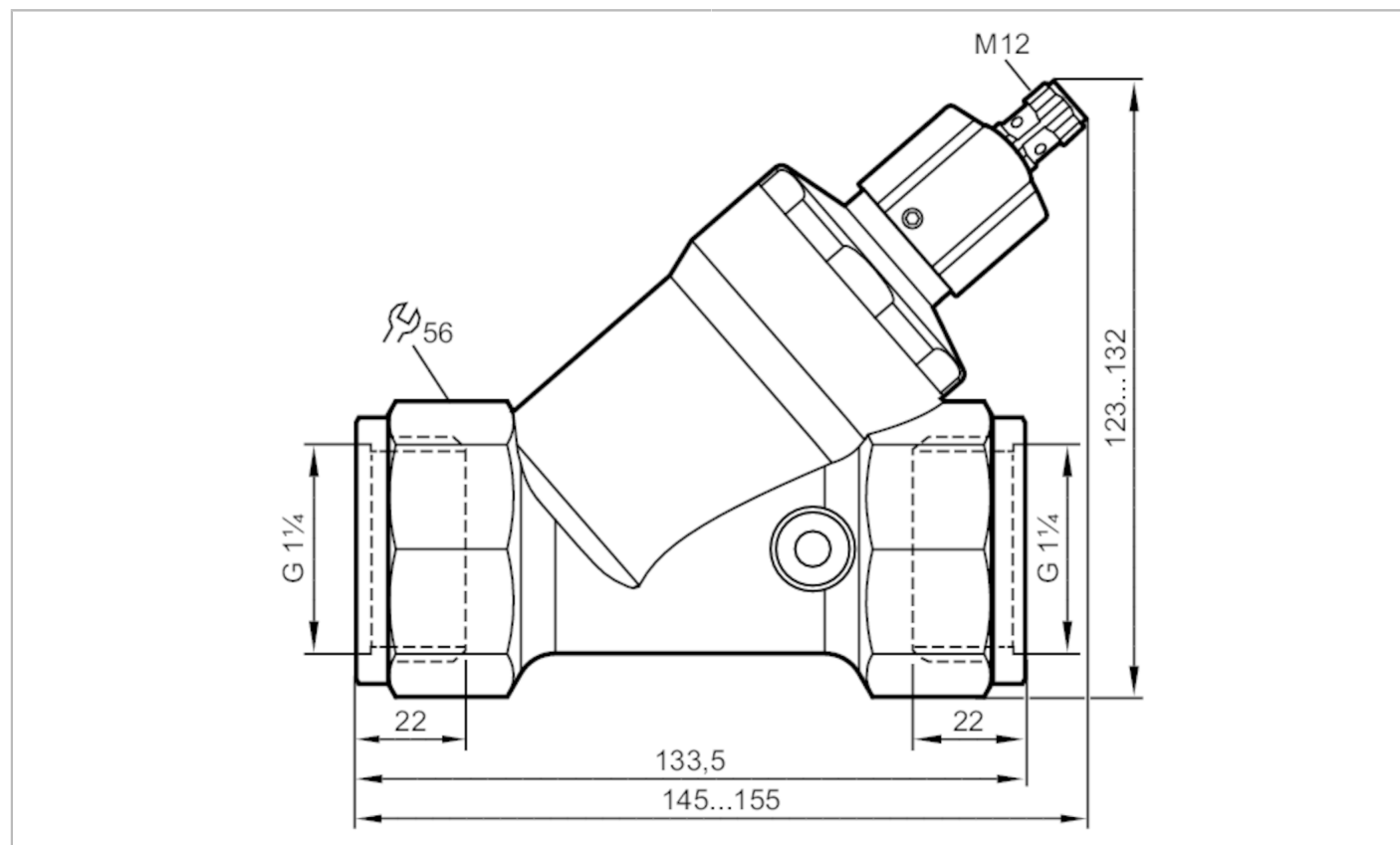


# SBG357



## Flow sensor with integrated backflow prevention

SBG32BF0BPKG/US



| Application                  |       |                                                  |
|------------------------------|-------|--------------------------------------------------|
| Media                        |       | Liquids; water; glycol solutions; oils; coolants |
| Medium temperature           | [°C]  | 0...85                                           |
| Pressure rating              | [bar] | 25                                               |
| Electrical data              |       |                                                  |
| Operating voltage            | [V]   | 10...30 DC; (to SELV/PELV)                       |
| Current consumption          | [mA]  | < 15                                             |
| Protection class             |       | III                                              |
| Reverse polarity protection  |       | yes                                              |
| Inputs / outputs             |       |                                                  |
| Number of inputs and outputs |       | Number of digital outputs: 1                     |



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| Outputs                                              |                                                                                                                                       |                    |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Total number of outputs                              | 1                                                                                                                                     |                    |
| Output signal                                        | switching signal                                                                                                                      |                    |
| Electrical design                                    | PNP                                                                                                                                   |                    |
| Number of digital outputs                            | 1                                                                                                                                     |                    |
| Output function                                      | normally open                                                                                                                         |                    |
| Max. voltage drop switching output DC [V]            | 2.5                                                                                                                                   |                    |
| Permanent current rating of switching output DC [mA] | 100                                                                                                                                   |                    |
| Short-circuit protection                             | yes                                                                                                                                   |                    |
| Overload protection                                  | yes                                                                                                                                   |                    |
| Measuring/setting range                              |                                                                                                                                       |                    |
| Setting range [l/min]                                | 20...200                                                                                                                              |                    |
| Accuracy / deviations                                |                                                                                                                                       |                    |
| Repeatability [% of the final value]                 | 1                                                                                                                                     |                    |
| Hysteresis [l/min]                                   | 5...10                                                                                                                                |                    |
| Measuring error [% of the final value]               | ± 5                                                                                                                                   |                    |
| 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) |
| MTTF [years]                                         | 3318                                                                                                                                  |                    |
| Mechanical data                                      |                                                                                                                                       |                    |
| Weight [g]                                           | 1496.8                                                                                                                                |                    |
| Materials                                            | brass chemically nickel-plated; PPS; aluminium anodised; PA                                                                           |                    |
| Materials (wetted parts)                             | stainless steel (1.4310 / 301); stainless steel (1.4301 / 304); PBT; brass chemically nickel-plated; PP; PPS; Polyolefin; O-ring: FKM |                    |
| Process connection                                   | G 1 1/4                                                                                                                               |                    |
| Switching cycles mechanical                          | 10 million                                                                                                                            |                    |
| Displays / operating elements                        |                                                                                                                                       |                    |
| Display                                              | switching status                                                                                                                      | 4 x LED, yellow    |
| Accessories                                          |                                                                                                                                       |                    |
| Accessories (supplied)                               | Allen key                                                                                                                             |                    |

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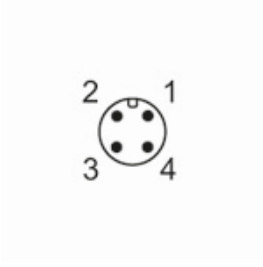
## Flow sensor with integrated backflow prevention

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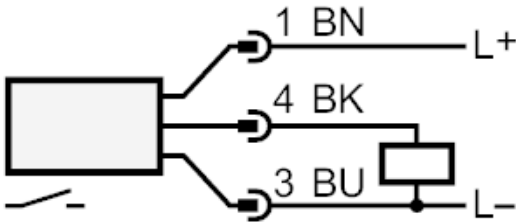
| Remarks       |                                                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------|
| Remarks       | Caution Do not turn the cap beyond the maximum value of the setting range.<br>All data refer to water (20 °C). |
| Pack quantity | 1 pcs.                                                                                                         |

### Electrical connection

Connector: 1 x M12



### Connection



colours to DIN EN 60947-5-2

Core colours :

- BK = black
- BN = brown
- BU = blue

# SBG357

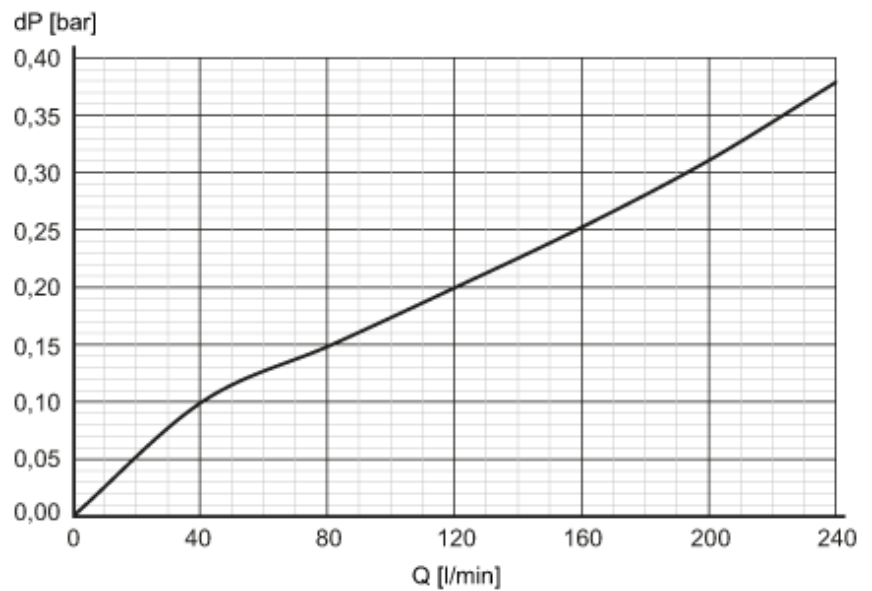


## Flow sensor with integrated backflow prevention

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### Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity