

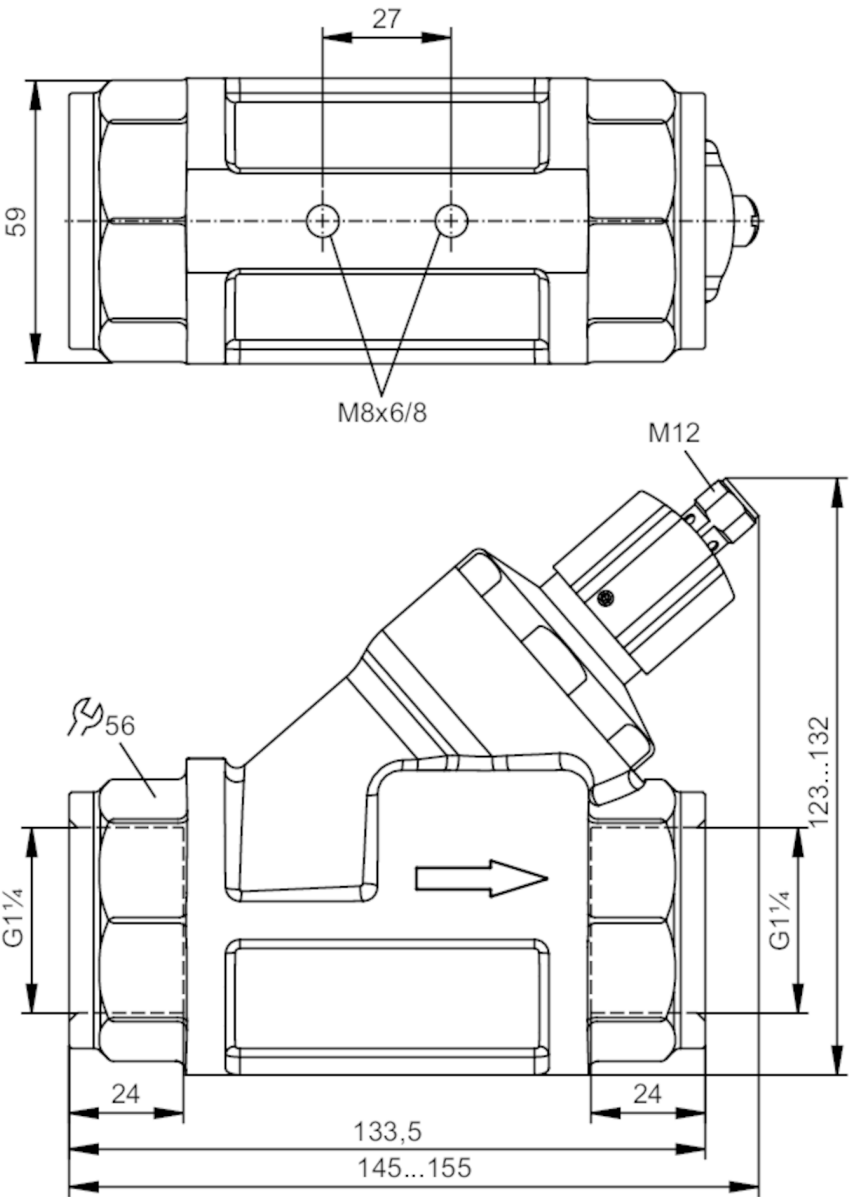
# SBG357



## Flow sensor with fast response time

SBG32BF0BPKG/US

Please note the changed housing design!



| Product characteristics      |                                             |         |
|------------------------------|---------------------------------------------|---------|
| Number of inputs and outputs | Number of digital outputs: 1                |         |
| Process connection           | threaded connection G 1 1/4 Internal thread |         |
| Application                  |                                             |         |
| Media                        | Liquids; water; glycol solutions; Coolants  |         |
| Medium temperature           | [°C]                                        | 0...85  |
| Pressure rating              | 25 bar                                      | 2.5 MPa |



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| 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                                                                                                                       |
| 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                                   |                        | 1                                                                                                                                                  |
|                                                 | [% of the final value] |                                                                                                                                                    |
| Hysteresis                                      | [l/min]                | 5...10                                                                                                                                             |
| Measuring error                                 |                        | ± 5                                                                                                                                                |
|                                                 | [% of the final value] |                                                                                                                                                    |
| Reaction 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]                    | 1809.65                                                                                                                                            |
| Material                                        |                        | brass chemically nickel-plated; PPS; aluminum anodized; PA                                                                                         |
| Materials (wetted parts)                        |                        | stainless steel (1.4310 / 301); stainless steel (1.4301 / 304); PBT; brass chemically nickel-plated; PP; PPS; spacer: POM; Polyolefin; O-ring: FKM |

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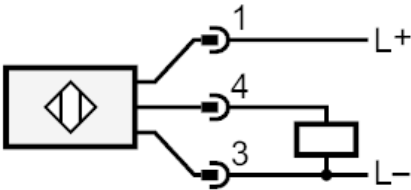
|                               |                                                                            |                 |
|-------------------------------|----------------------------------------------------------------------------|-----------------|
| Process connection            | threaded connection G 1 1/4 Internal thread                                |                 |
| Switching cycles mechanical   | 10 million                                                                 |                 |
| Displays / operating elements |                                                                            |                 |
| Display                       | Switching status                                                           | 4 x LED, yellow |
| Accessories                   |                                                                            |                 |
| Items supplied                | Allen key                                                                  |                 |
| Remarks                       |                                                                            |                 |
| Remarks                       | Caution Do not turn the cap beyond the maximum value of the setting range. |                 |
|                               | All data refer to water (20 °C).                                           |                 |
| Notes                         | Please note the changed housing design!                                    |                 |
| Pack quantity                 | 1 pcs.                                                                     |                 |

Electrical connection

Connector: 1 x M12; coding: A



Connection



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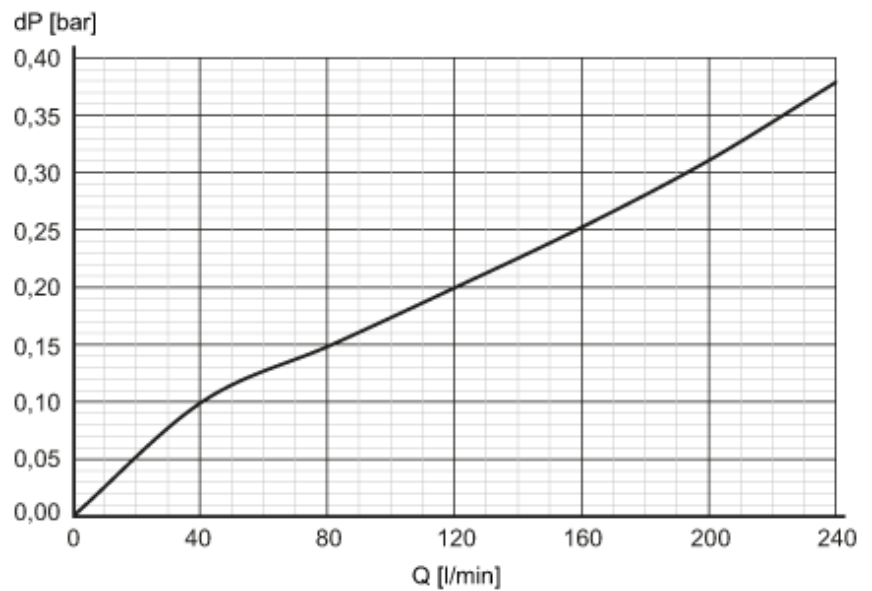


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### Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity