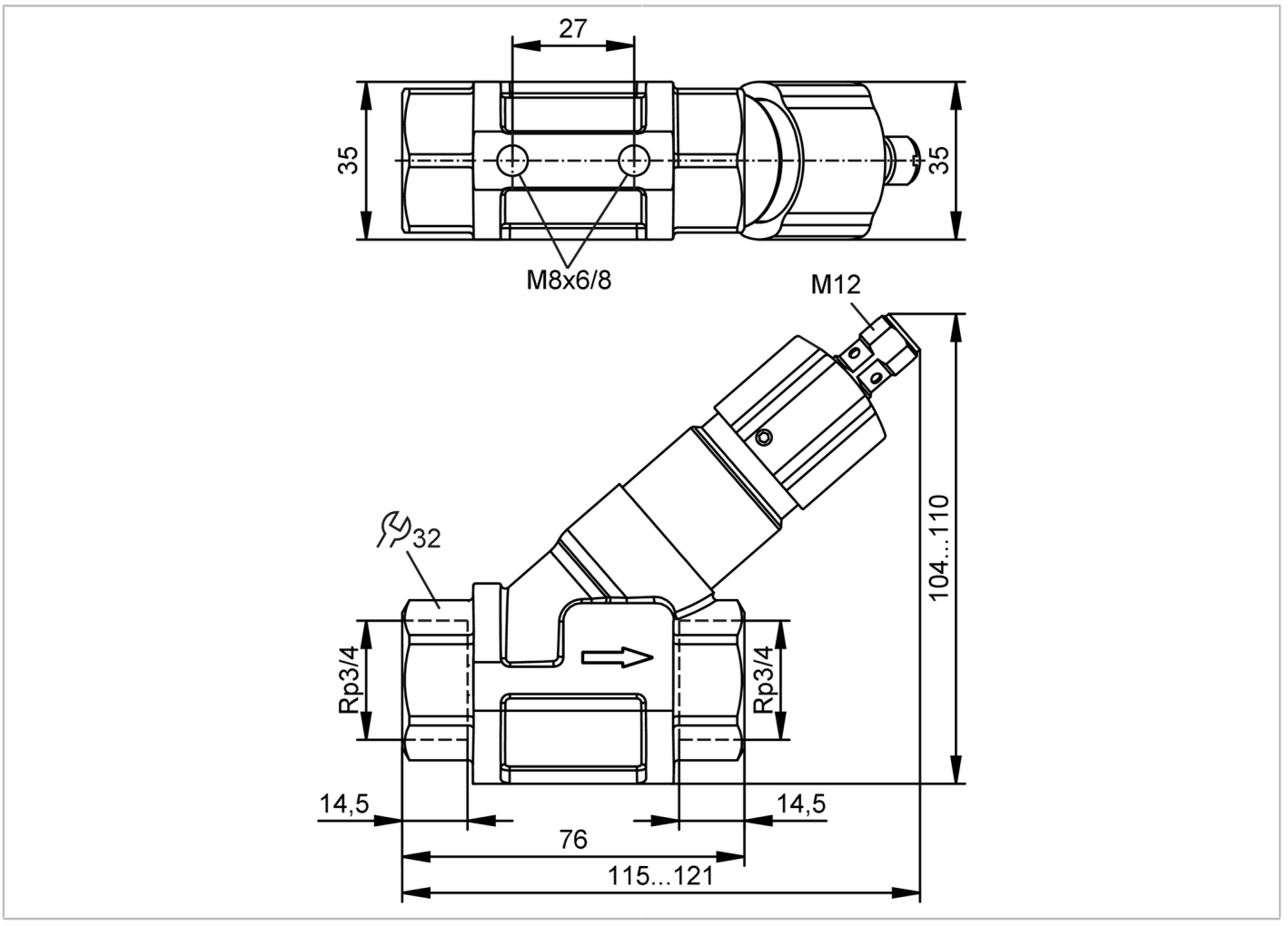
# SBY334

## Flow sensor with integrated backflow prevention

SBY34BF0BPKG/US

Please note the changed housing design!




| | | | |
|---|---|---|---|
| **Product characteristics** | | | |
| Number of inputs and outputs | | Number of digital outputs: 1 | |
| Process connection | | threaded connection Rp 3/4 internal thread | |
| **Application** | | | |
| Media | | Liquids; water; coolants | |
| Medium temperature | [°C] | 0...85 | |
| Pressure rating | | 40 bar | 4 MPa |
| **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 | |

# SBY334

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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] | 2...50 | |
| **Accuracy / deviations** | | | |
| Repeatability | [% of the final value] | 1 | |
| Hysteresis | [l/min] | 1...3 | |
| 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] | 559.2 | |
| Materials | | brass chemically nickel-plated; PP; aluminium anodised; PA | |
| Materials (wetted parts) | | stainless steel (301/1.4310); stainless steel (304/1.4301); PBT; brass chemically nickel-plated; PP; PPS; Polyolefin; O-ring: FKM | |
| Process connection | | threaded connection Rp 3/4 internal thread | |
| Switching cycles mechanical | | 10 million | |
| **Displays / operating elements** | | | |
| Display | | switching status | 4 x LED, yellow |
| **Accessories** | | | |
| Items supplied | | Allen key | |

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### Remarks

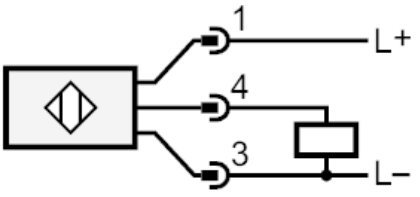
| | |
|---|---|
| Remarks | Caution Do not turn the cap beyond the maximum value of the setting range.<br>All data refer to water (20 °C). |
| Notes | Please note the changed housing design! |
| Pack quantity | 1 pcs. |

### Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4




Connection



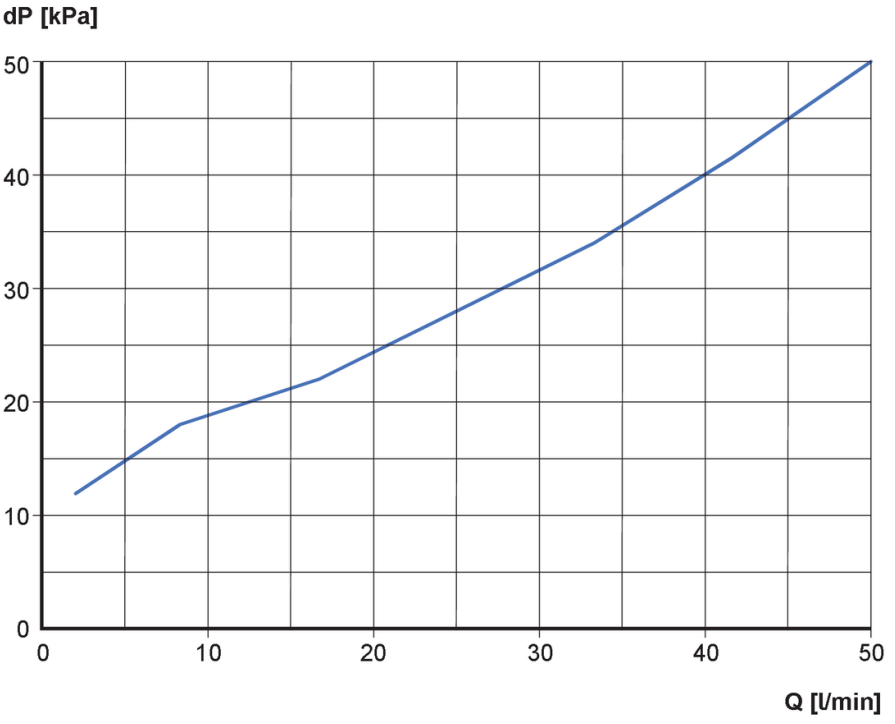
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## Diagrams and graphs

Pressure loss




dP Pressure loss

Q volumetric flow quantity