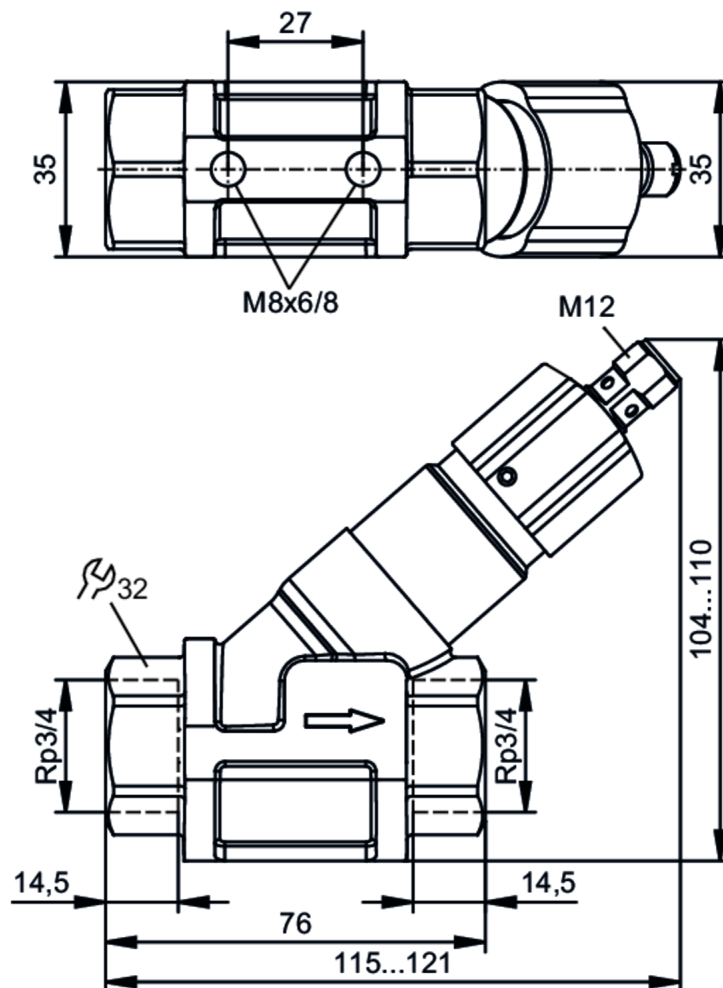


## Flow sensor with integrated backflow prevention

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Please note the changed housing design!



### Product characteristics

|                              |                              |
|------------------------------|------------------------------|
| Number of inputs and outputs | Number of digital outputs: 1 |
| Process connection           | Rp 3/4                       |

### Application

|                         |  |
|-------------------------|--|
| Media                   | Liquids; water; glycol solutions; coolants |
| Medium temperature [°C] | 0...85                                     |
| Pressure rating [bar]   | 40   |
| Pressure rating [MPa]   | 4  |

### Electrical data

|                             |                            |
|-----------------------------|----------------------------|
| Operating voltage [V]       | 10...30 DC; (to SELV/PELV) |
| Current consumption [mA]    | < 15                       |
| Protection class            | III                        |
| Reverse polarity protection | yes                        |



## Flow sensor with integrated backflow prevention

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| 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]                                |  | 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]   |  | 476.5   |                    |
| 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                                   |  | Rp 3/4  |                    |
| Switching cycles mechanical                          |  | 10 million  |                    |
| Displays / operating elements                        |  |   |                    |
| Display  |  | switching status  | 4 x LED, yellow    |

# SBY334



## Flow sensor with integrated backflow prevention

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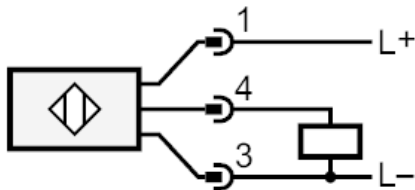
| Accessories    |  |
|----------------|--|
| Items supplied | Allen key  |
| Remarks        |  |
| Remarks        | Caution Do not turn the cap beyond the maximum value of the setting range.<br>All data refer to water (20 °C). |
| Notes          | Please note the changed housing design!  |
| Pack quantity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

### Electrical connection

Connector: 1 x M12; coding: A



### Connection



# SBY334

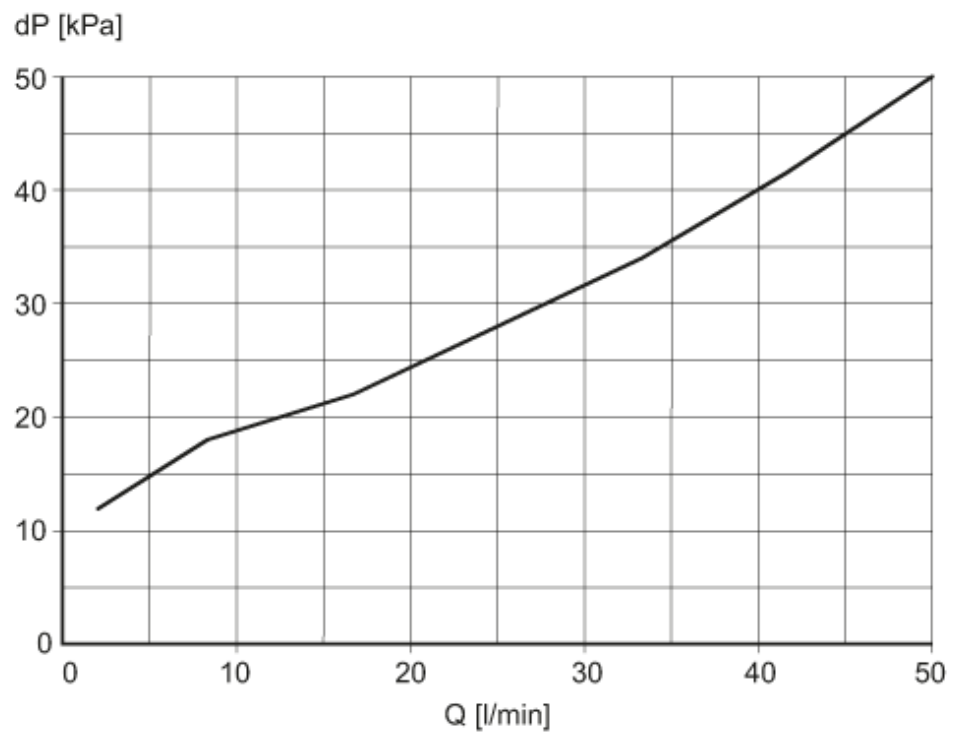


## Flow sensor with integrated backflow prevention

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### Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity