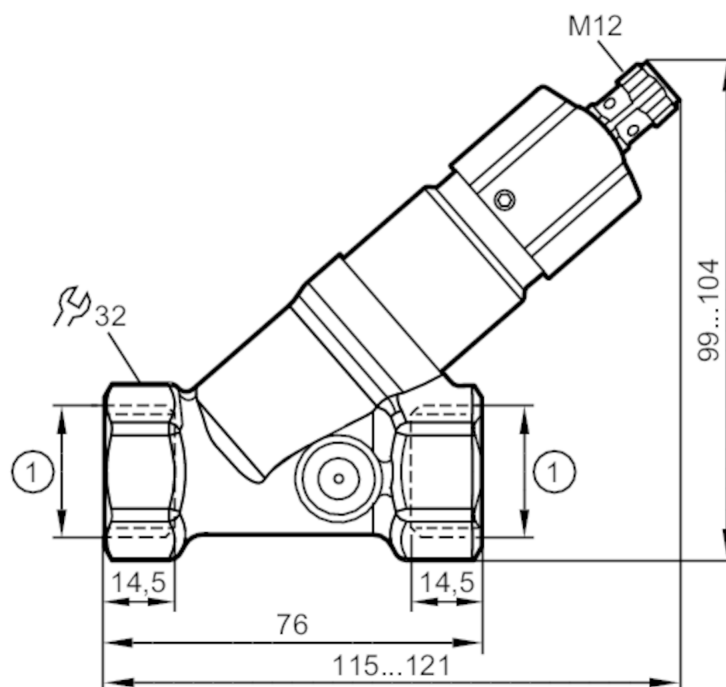


## Flow sensor with integrated backflow prevention

SBY34BF0BPKG/US



1: Rp 3/4



### 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                        |

### 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    |



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|                                                 |                        |                                                                                                                                   |
|-------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                               |
| <b>Measuring/setting range</b>                  |                        |                                                                                                                                   |
| Setting range                                   | [l/min]                | 2...50                                                                                                                            |
| <b>Accuracy / deviations</b>                    |                        |                                                                                                                                   |
| Repeatability                                   | [% of the final value] | 1                                                                                                                                 |
| Hysteresis                                      | [l/min]                | 1...3                                                                                                                             |
| Measuring error                                 | [% of the final value] | ± 5                                                                                                                               |
| <b>Response times</b>                           |                        |                                                                                                                                   |
| Response time                                   | [s]                    | < 0.01                                                                                                                            |
| <b>Operating conditions</b>                     |                        |                                                                                                                                   |
| Ambient temperature                             | [°C]                   | 0...60                                                                                                                            |
| Storage temperature                             | [°C]                   | -15...80                                                                                                                          |
| Protection                                      |                        | IP 65; IP 67                                                                                                                      |
| <b>Tests / approvals</b>                        |                        |                                                                                                                                   |
| 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                                                                                                                              |
| <b>Mechanical data</b>                          |                        |                                                                                                                                   |
| 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                                                                                                                        |
| <b>Displays / operating elements</b>            |                        |                                                                                                                                   |
| Display                                         | switching status       | 4 x LED, yellow                                                                                                                   |
| <b>Accessories</b>                              |                        |                                                                                                                                   |
| Items supplied                                  |                        | Allen key                                                                                                                         |
| <b>Remarks</b>                                  |                        |                                                                                                                                   |
| 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.                                                                                                                            |

## Flow sensor with integrated backflow prevention

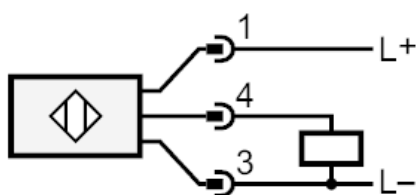
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### Electrical connection

Connector: 1 x M12; coding: A

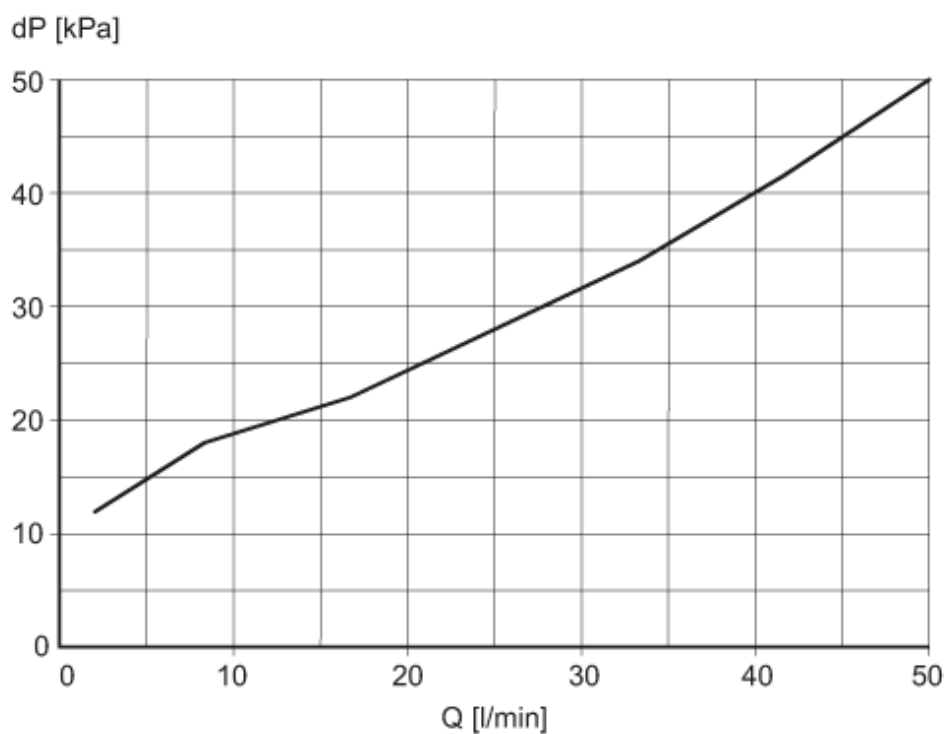


### Connection



### Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity