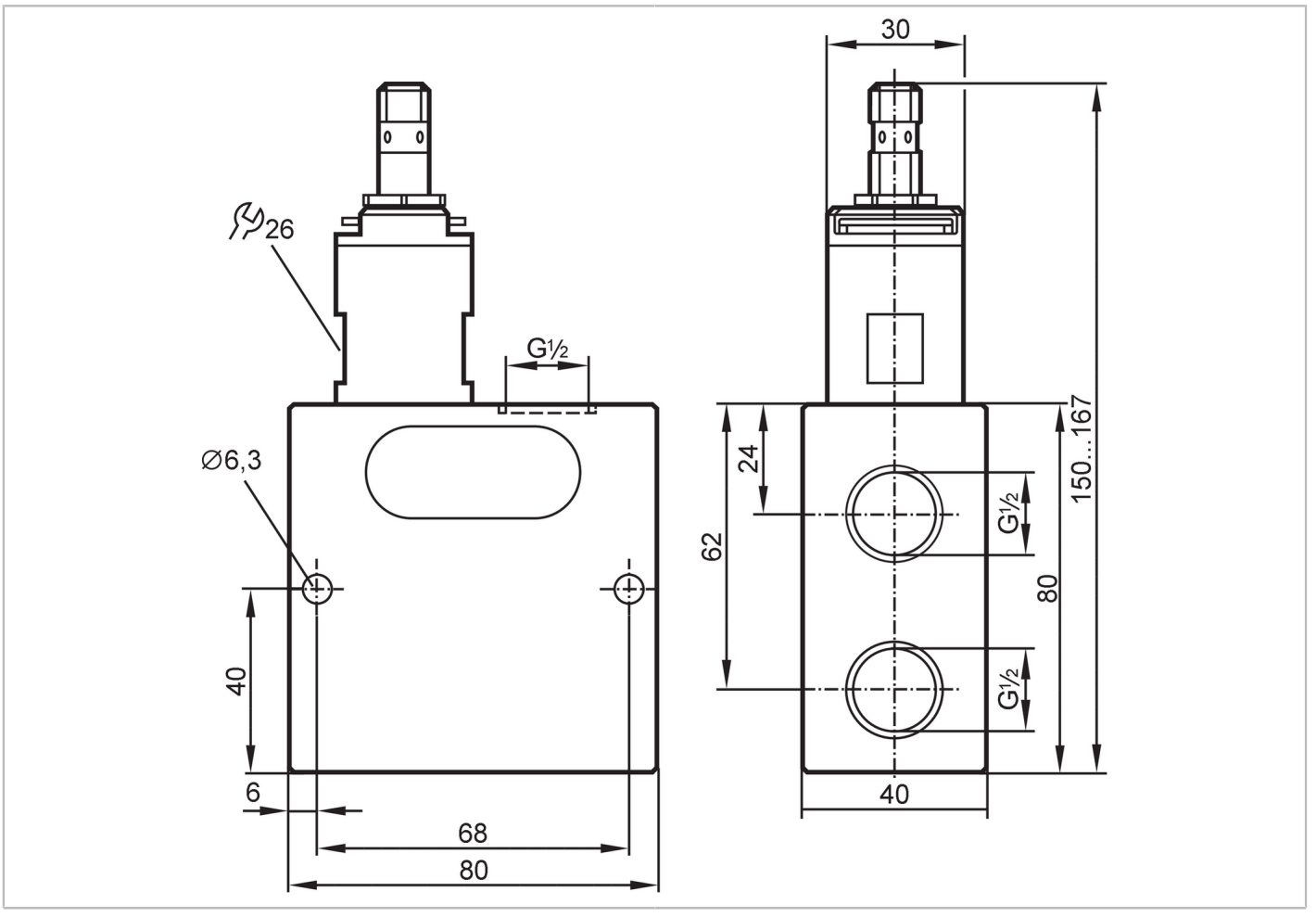
# SBU323

## Flow sensor with integrated backflow prevention

SBU12DI0BPKG/US




| | | | |
|---|---|---|---|
| **Product characteristics** | | | |
| Number of inputs and outputs | | Number of digital outputs: 1 | |
| Process connection | | threaded connection G 1/2 internal thread | |
| **Application** | | | |
| Application | | machine tools; Internal cooling of drill | |
| Medium temperature | [°C] | 0...60 | |
| Pressure rating | | 200 bar | 20 MPa |
| **Electrical data** | | | |
| Operating voltage | [V] | 10...30 DC;  (to SELV/PELV) | |
| Current consumption | [mA] | < 15 | |
| Min. insulation resistance | [MΩ] | 100;  (500 V DC) | |
| 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 | |

# SBU323

## Flow sensor with integrated backflow prevention

SBU12DI0BPKG/US

| | | | |
|---|---|---|---|
| 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** | | | |
| Flow range | [l/min] | 75 | |
| Setting range | [l/min] | 0.3...25 | |
| **Accuracy / deviations** | | | |
| Repeatability | [% of the final value] | 1 | |
| Hysteresis | [l/min] | 0,1...1 | |
| 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] | 3387 | |
| **Mechanical data** | | | |
| Weight | [g] | 767 | |
| Housing | | rectangular | |
| Dimensions | [mm] | 167 x 80 x 40 | |
| Materials | | aluminium anodised; PA | |
| Materials (wetted parts) | | stainless steel (301/1.4310); stainless steel (304/1.4301); aluminium anodised; PBT; PU; O-ring: FKM | |
| Process connection | | threaded connection G 1/2 internal thread | |
| Switching cycles mechanical | | 10 million | |
| **Displays / operating elements** | | | |
| Display | | switching status | 4 x LED, yellow |
| **Accessories** | | | |
| Items supplied | | sealing plugs | |

# SBU323

## Flow sensor with integrated backflow prevention

SBU12DI0BPKG/US

## Remarks

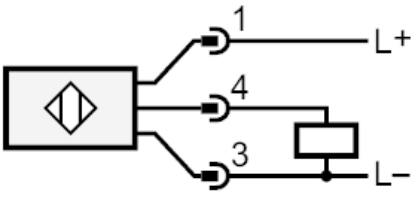
| | |
|---|---|
| Remarks | Temperature changes slightly affect the specified standard settings for coolants. |
| | For oils, the settings are influenced by temperature and viscosity. |
| | Recommendation Use 200 micron filtration |
| | All data refer to coolants (20 °C). |
| Pack quantity | 1 pcs. |

## Electrical connection

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




### Connection




## Diagrams and graphs

