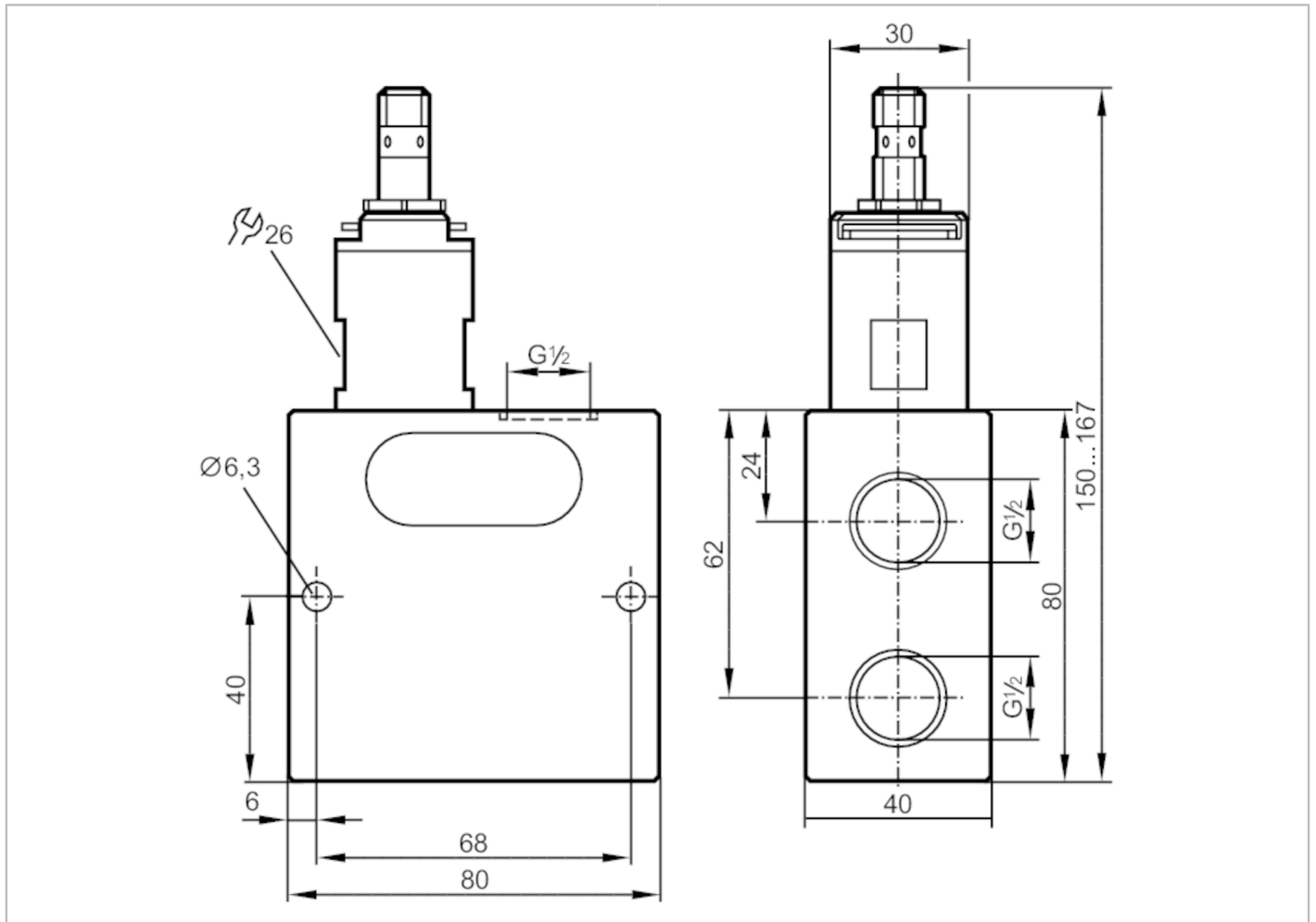


SBU323



Flow sensor with fast response time

SBU12DI0BPKG/US



Product characteristics

| | |
|------------------------------|------------------------------|
| Number of inputs and outputs | Number of digital outputs: 1 |
| Process connection | G 1/2 |

Application

| | |
|-------------------------|--|
| Application | Machine tools; Internal cooling of drill |
| Medium temperature [°C] | 0...60 |
| Pressure rating [bar] | 200 |
| Pressure rating [MPa] | 20 |

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 |
|-------------------------|---|

SBU323



Flow sensor with fast response time

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 | | 1 |
| | [% of the final value] | |
| Hysteresis | [l/min] | 0,1...1 |
| 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] | 15.78 |

| | | |
|-----------------------------|-----|---|
| Mechanical data | | |
| Weight | [g] | 767 |
| Material | | aluminum anodized; PA |
| Materials (wetted parts) | | stainless steel (1.4310 / 301); stainless steel (1.4301 / 304); aluminum anodized; PBT; PU; O-ring: FKM |
| Process connection | | G 1/2 |
| Switching cycles mechanical | | 10 million |

| | | |
|--------------------------------------|------------------|-----------------|
| Displays / operating elements | | |
| Display | Switching status | 4 x LED, yellow |

| | | |
|--------------------|--|--------------|
| Accessories | | |
| Items supplied | | sealing plug |

SBU323



Flow sensor with fast response time

SBU12DI0BPKG/US

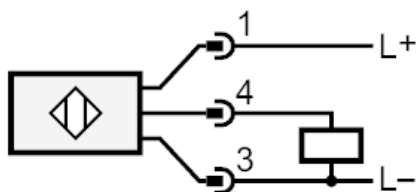
| Remarks | |
|---------------|--|
| Remarks | Temperature changes affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C). |
| Pack quantity | 1 pcs. |

Electrical connection

Connector: 1 x M12; coding: A



Connection



Diagrams and graphs

