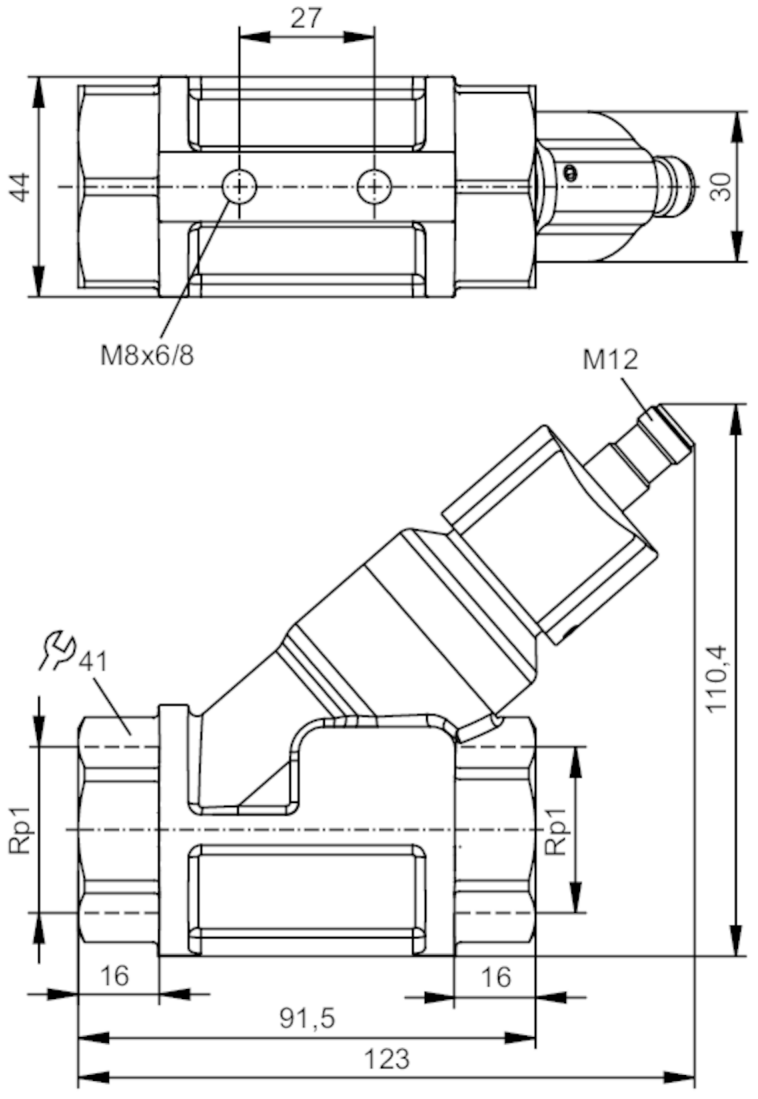
# SBY446

## Flow transmitter with integrated backflow prevention

SBY11HF010KG/US

Please note the changed housing design!




| | | | |
|---|---|---|---|
| **Product characteristics** | | | |
| Measuring range | [l/min] | 4...100 | |
| Process connection | | threaded connection Rp 1 internal thread | |
| **Application** | | | |
| Media | | Liquids; water; glycol solutions; coolants | |
| Medium temperature | [°C] | -10...100 | |
| Pressure rating | | 25 bar | 2.5 MPa |
| **Electrical data** | | | |
| Operating voltage | [V] | 18...32 DC; (to SELV/PELV) | |
| Current consumption | [mA] | < 35 | |

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| | | | |
|---|---|---|---|
| Protection class | | III | |
| Reverse polarity protection | | yes | |
| **Outputs** | | | |
| Output signal | | analogue signal | |
| Analogue current output | [mA] | 4...20 | |
| Max. load | [Ω] | 500 | |
| Short-circuit protection | | yes | |
| Overload protection | | yes | |
| **Measuring/setting range** | | | |
| Measuring range | [l/min] | 4...100 | |
| **Accuracy / deviations** | | | |
| Repeatability | [% of the final value] | 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] | 778 | |
| **Mechanical data** | | | |
| Weight | [g] | 1093.8 | |
| Materials | | brass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PA | |
| Materials (wetted parts) | | stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKM | |
| Process connection | | threaded connection Rp 1 internal thread | |
| Switching cycles mechanical | | 10 million | |
| **Remarks** | | | |
| Remarks | | Recommendation Use 200 micron filtration | |
| | | All data refer to water (20 °C). | |
| Notes | | Please note the changed housing design! | |
| Pack quantity | | 1 pcs. | |

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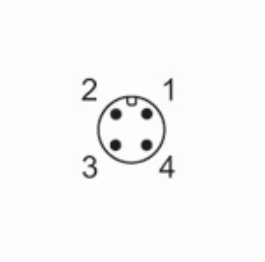
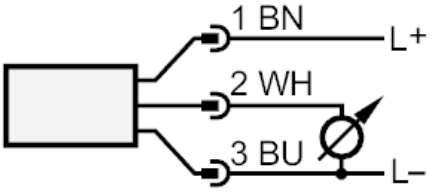
## Electrical connection

Connector: 1 x M12; coding: A




### Connection

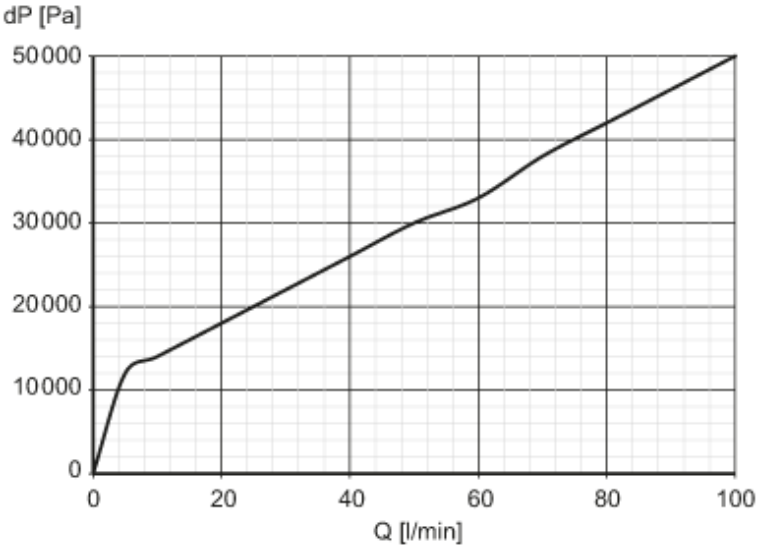



colours to DIN EN 60947-5-2
Core colours :

| | |
|---|---|
| BN = | brown |
| BU = | blue |
| WH = | white |

## Diagrams and graphs

Pressure loss




dP Pressure loss

Q volumetric flow quantity