

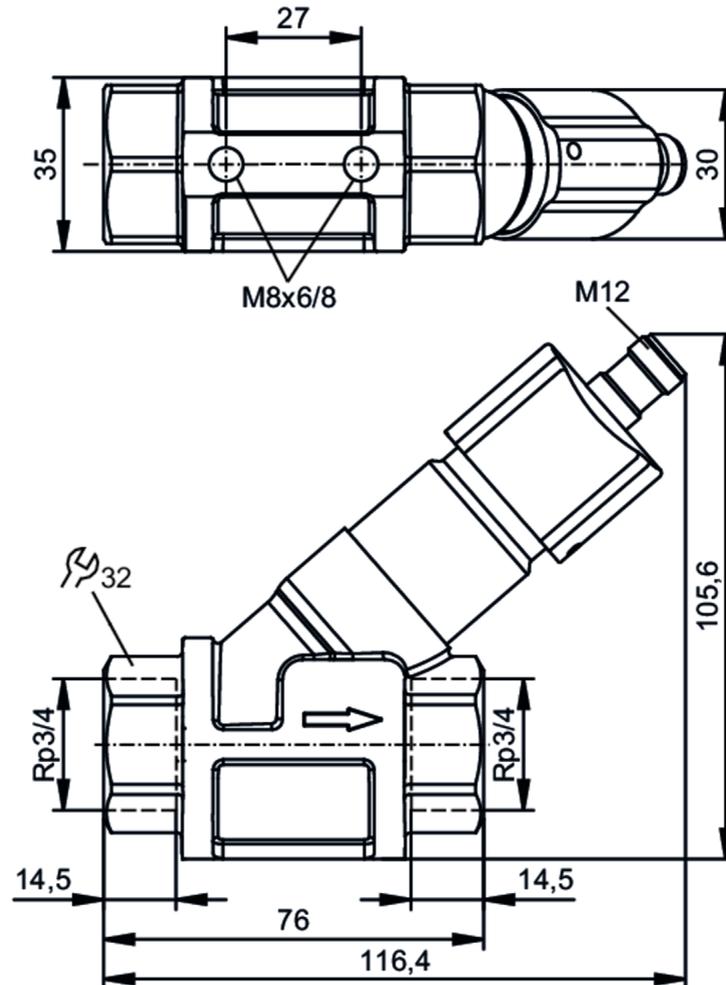
SBY434



Flow transmitters with fast response time

SBY34HF010KG/US

Please note the changed housing design!



Product characteristics

| | | |
|--------------------|---------|--|
| Measuring range | [l/min] | 2...50 |
| Process connection | | threaded connection Rp 3/4 Internal thread |

Application

| | | |
|--------------------|--------|--|
| Media | | Liquids; water; glycol solutions; Coolants |
| Medium temperature | [°C] | -10...100 |
| Pressure rating | 40 bar | 4 MPa |

Electrical data

| | | |
|-----------------------------|------|----------------------------|
| Operating voltage | [V] | 18...32 DC; (to SELV/PELV) |
| Current consumption | [mA] | < 35 |
| Protection class | | III |
| Reverse polarity protection | | yes |

Outputs

| | | |
|---------------|--|---------------|
| Output signal | | analog signal |
|---------------|--|---------------|

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| | | |
|--------------------------|------|--------|
| Analog current output | [mA] | 4...20 |
| Max. load | [Ω] | 500 |
| Short-circuit protection | | yes |
| Overload protection | | yes |

Measuring/setting range

| | | |
|-----------------|---------|--------|
| Measuring range | [l/min] | 2...50 |
|-----------------|---------|--------|

Accuracy / deviations

| | | |
|-----------------|------------------------|-----|
| Repeatability | | 1 |
| | [% of the final value] | |
| 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] | 778 |

Mechanical data

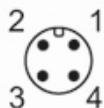
| | | |
|-----------------------------|-----|---|
| Weight | [g] | 564.05 |
| Material | | brass chemically nickel-plated; PP; stainless steel (1.4404 / 316L); aluminum anodized; PA |
| Materials (wetted parts) | | stainless steel (1.4401 / 316); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKM |
| Process connection | | threaded connection Rp 3/4 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. |

Electrical connection

Connector: 1 x M12; coding: A



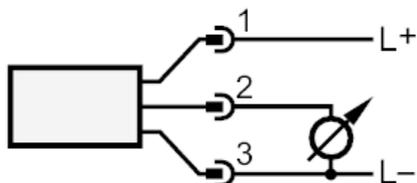
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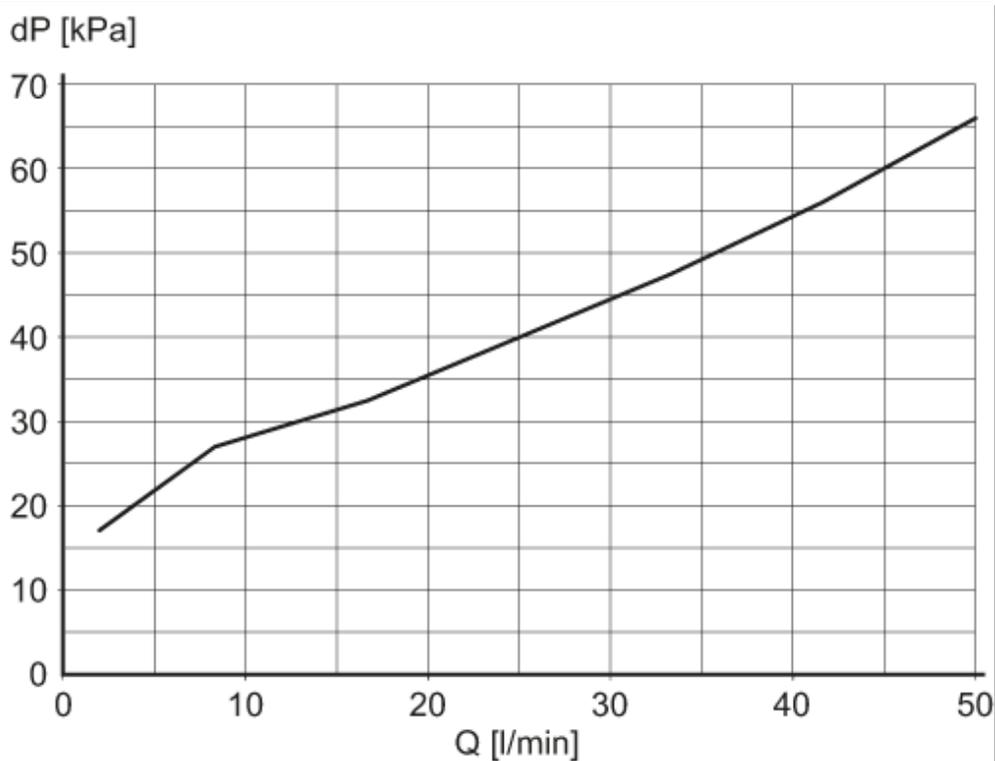
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Connection



Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity