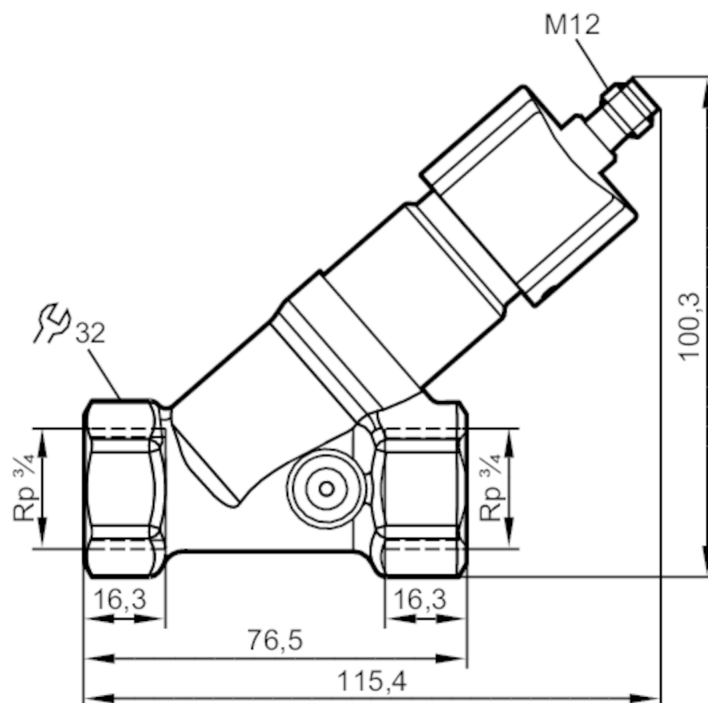


## Flow transmitter with integrated backflow prevention

SBY34HF010KG/US



### Application

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

### 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            |      | 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] | 0.3...15 |
|-----------------|---------|----------|

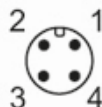
### Accuracy / deviations

|                 |                        |     |
|-----------------|------------------------|-----|
| Repeatability   |                        | 1   |
|                 | [% of the final value] |     |
| Measuring error |                        | ± 5 |
|                 | [% of the final value] |     |



## Flow transmitter with integrated backflow prevention

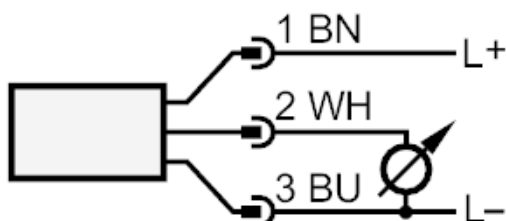
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| Response times                                                                                 |                                                                                             |                    |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------|
| 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]                                                                                         | 491.2              |
| Materials                                                                                      | brass chemically nickel-plated; PP; stainless steel (1.4404 / 316L); aluminium anodised; PA |                    |
| Materials (wetted parts)                                                                       | stainless steel (1.4401 / 316); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKM |                    |
| Process connection                                                                             | Rp 3/4                                                                                      |                    |
| Switching cycles mechanical                                                                    | 10 million                                                                                  |                    |
| Remarks                                                                                        |                                                                                             |                    |
| Remarks                                                                                        | Recommendation Use 200 micron filtration                                                    |                    |
|                                                                                                | All data refer to water (20 °C).                                                            |                    |
| Pack quantity                                                                                  | 1 pcs.                                                                                      |                    |
| Electrical connection                                                                          |                                                                                             |                    |
| Connector: 1 x M12                                                                             |                                                                                             |                    |
| <div></div> |                                                                                             |                    |

## Flow transmitter with integrated backflow prevention

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### Connection



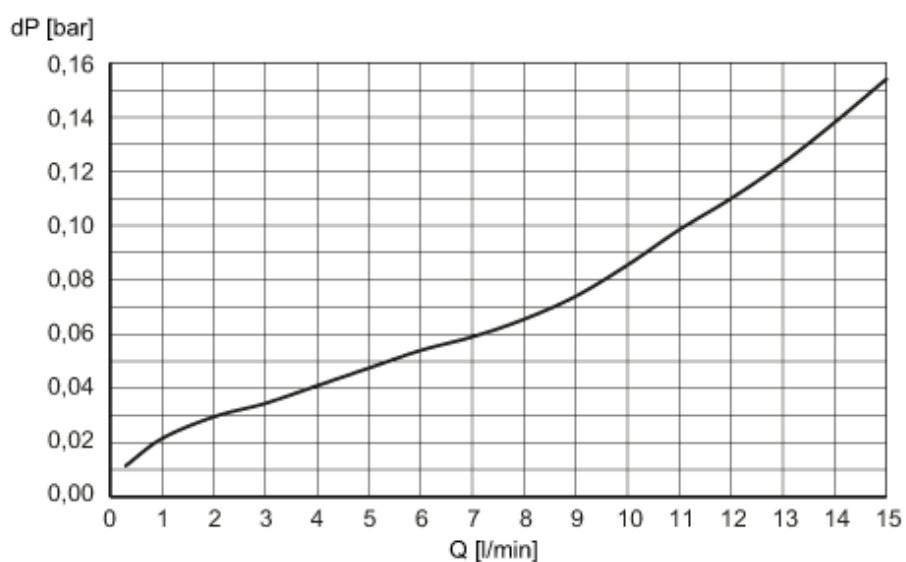
colours to DIN EN 60947-5-2

Core colours :

BN = brown  
BU = blue  
WH = white

### Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity