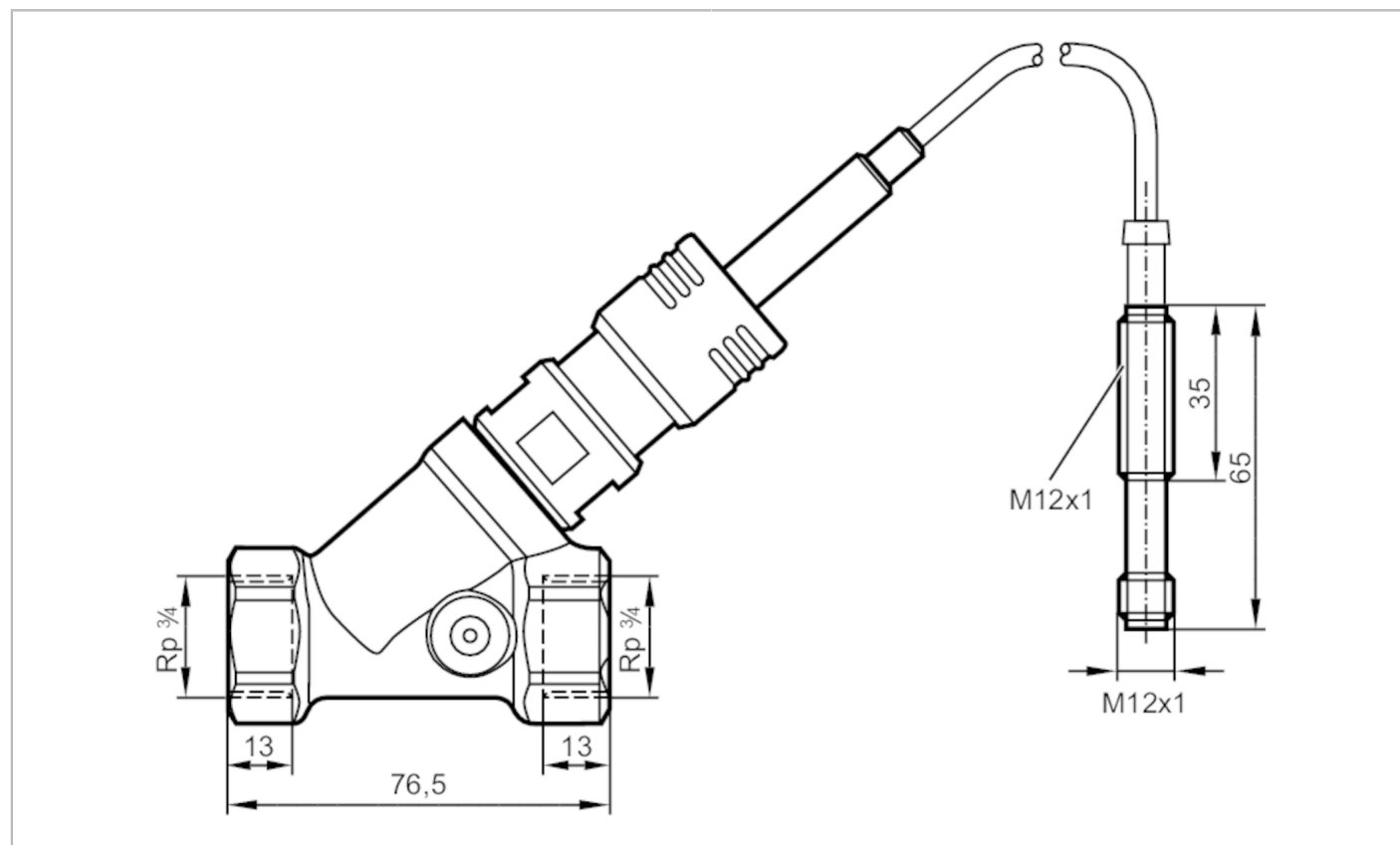


# SBT633



## Flow transmitter with integrated backflow prevention

SBT34XKX10KG/O/US



| Application                 |         |                                                               |
|-----------------------------|---------|---------------------------------------------------------------|
| Media                       |         | Liquids; water; glycol solutions                              |
| Medium temperature          | [°C]    | 10...180                                                      |
| Pressure rating             | [bar]   | 15                                                            |
| Note on pressure rating     |         | at max. medium temperature<br>at temperatures up to 85 °C: 25 |
| Electrical data             |         |                                                               |
| Operating voltage tolerance | [%]     | -15...10                                                      |
| Operating voltage           | [V]     | 24 DC; (to SELV/PELV)                                         |
| Current consumption         | [mA]    | < 30                                                          |
| 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...25                                                      |



## Flow transmitter with integrated backflow prevention

SBT34XKX10KG/O/US

| Accuracy / deviations       |                                                                                            |                    |
|-----------------------------|--------------------------------------------------------------------------------------------|--------------------|
| Repeatability               |                                                                                            | 1                  |
| [% of the final value]      |                                                                                            |                    |
| Measuring error             |                                                                                            | ± 5                |
| [% of the final value]      |                                                                                            |                    |
| 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]                                                                                    | 1380               |
| Mechanical data             |                                                                                            |                    |
| Weight                      | [g]                                                                                        | 563.2              |
| Materials                   | brass chemically nickel-plated; PPS; copper alloy; aluminium anodised; TPE-E; silicone; PA |                    |
| Materials (wetted parts)    | stainless steel (1.4401 / 316); brass; brass chemically nickel-plated; 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       |                                                                                            |                    |
| Cable: ,3 m, silicone       |                                                                                            |                    |



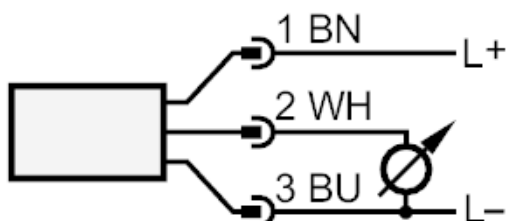
# SBT633



## Flow transmitter with integrated backflow prevention

SBT34XKX10KG/O/US

### Connection



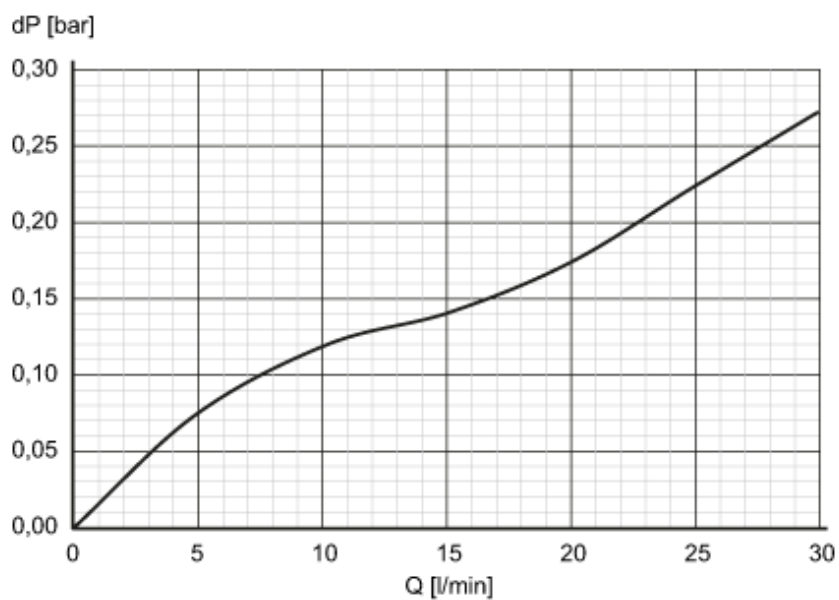
colours to DIN EN 60947-5-2

Core colours :

BN = brown  
BU = blue  
WH = white

### Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity