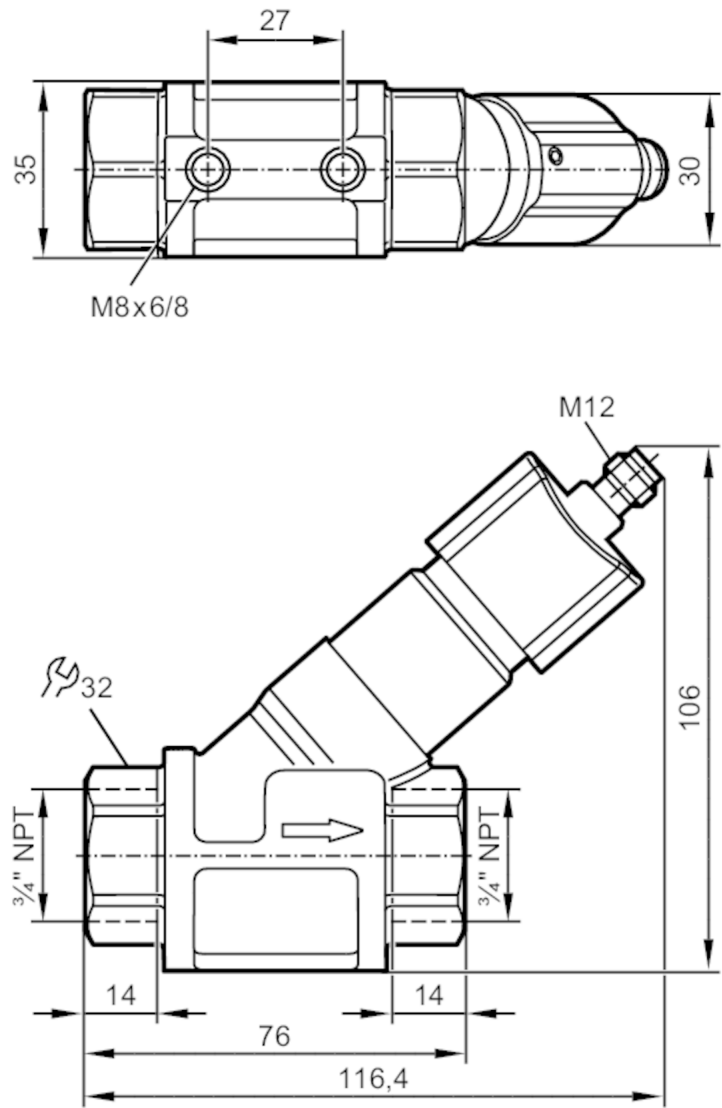




Flow transmitters with fast response time

SBN34HF010KG/US

Please note the changed housing design!



| Product characteristics |        |                                              |
|-------------------------|--------|----------------------------------------------|
| Measuring range         | [gpm]  | 0.2...6                                      |
| Process connection      |        | threaded connection 3/4" NPT Internal thread |
| Application             |        |                                              |
| Media                   |        | Liquids; water; glycol solutions; Coolants   |
| Medium temperature      | [°F]   | 14...212                                     |
| Pressure rating         | 40 bar | 4 MPa                                        |
| Electrical data         |        |                                              |
| Operating voltage       | [V]    | 18...32 DC; (to SELV/PELV)                   |
| Current consumption     | [mA]   | < 35                                         |



## Flow transmitters with fast response time

SBN34HF010KG/US

|                                        |                                                                                             |                    |
|----------------------------------------|---------------------------------------------------------------------------------------------|--------------------|
| Protection class                       | III                                                                                         |                    |
| Reverse polarity protection            | yes                                                                                         |                    |
| Outputs                                |                                                                                             |                    |
| Output signal                          | analog signal                                                                               |                    |
| Analog current output [mA]             | 4...20                                                                                      |                    |
| Max. load [Ω]                          | 500                                                                                         |                    |
| Short-circuit protection               | yes                                                                                         |                    |
| Overload protection                    | yes                                                                                         |                    |
| Measuring/setting range                |                                                                                             |                    |
| Measuring range [gpm]                  | 0.2...6                                                                                     |                    |
| Accuracy / deviations                  |                                                                                             |                    |
| Repeatability [% of the final value]   | 1                                                                                           |                    |
| Measuring error [% of the final value] | ± 5                                                                                         |                    |
| Reaction times                         |                                                                                             |                    |
| Response time [s]                      | < 0.01                                                                                      |                    |
| Operating conditions                   |                                                                                             |                    |
| Ambient temperature [°F]               | 32...140                                                                                    |                    |
| Storage temperature [°F]               | 5...176                                                                                     |                    |
| 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]                             | 476                                                                                         |                    |
| 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 3/4" NPT Internal thread                                                |                    |
| Switching cycles mechanical            | 10 million                                                                                  |                    |
| Remarks                                |                                                                                             |                    |
| Remarks                                | Recommendation Use 200 micron filtration<br>All data refer to water (68 °F).                |                    |
| Notes                                  | Please note the changed housing design!                                                     |                    |
| Pack quantity                          | 1 pcs.                                                                                      |                    |

# SBN433



## Flow transmitters with fast response time

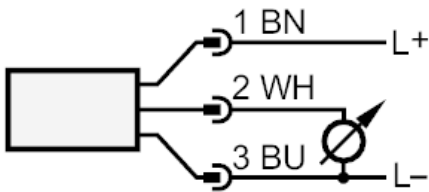
SBN34HF010KG/US

### Electrical connection

Connector: 1 x M12; coding: A



### Connection



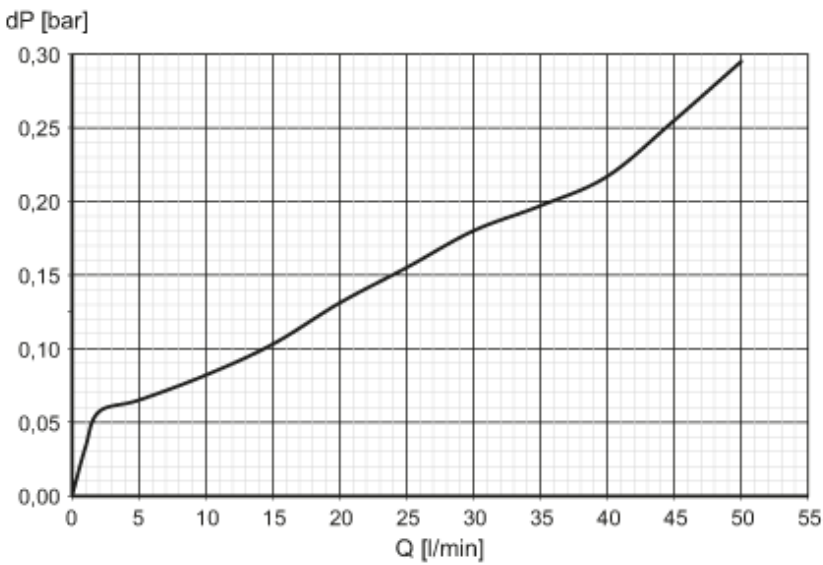
Colors to DIN EN 60947-5-2

Core colors :

BN = brown  
BU = blue  
WH = white

### Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity