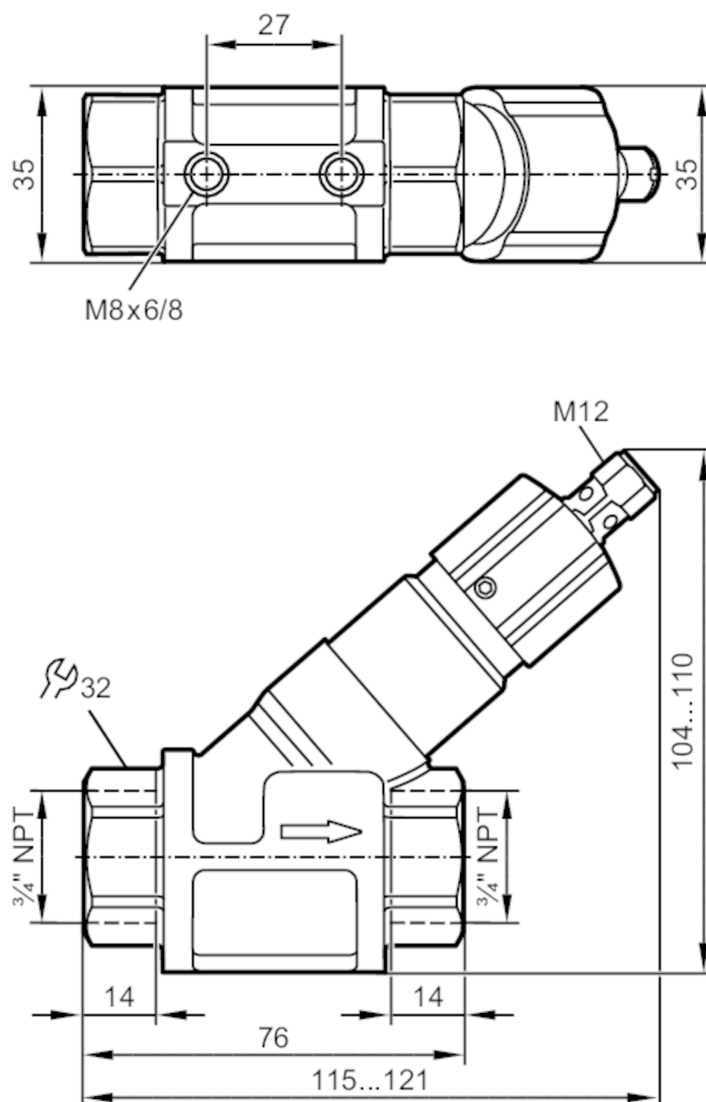


Flow sensor with integrated backflow prevention

SBY34BF0BPKG/US

Please note the changed housing design!



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1
Process connection	threaded connection 3/4" NPT internal thread

Application

Media	Liquids; water; glycol solutions; coolants
Medium temperature [°F]	32...185
Pressure rating	40 bar 4 MPa

Electrical data

Operating voltage [V]	10...30 DC; (to SELV/PELV)
Current consumption [mA]	< 15



Flow sensor with integrated backflow prevention

SBY34BF0BPKG/US

Protection class	III
Reverse polarity protection	yes
Inputs / outputs	
Number of inputs and outputs	Number of digital outputs: 1
Outputs	
Total number of outputs	1
Output signal	switching signal
Electrical design	PNP
Number of digital outputs	1
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Short-circuit protection	yes
Overload protection	yes
Measuring/setting range	
Setting range [gpm]	0.26...6.6
Accuracy / deviations	
Repeatability [% of the final value]	1
Hysteresis [gpm]	0,13...0,53
Measuring error [% of the final value]	± 5
Response 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
Vibration resistance	DIN EN 60068-2-6
MTTF [years]	3318
Mechanical data	
Weight [g]	578.25
Materials	brass chemically nickel-plated; PPS; aluminium anodised; PA
Materials (wetted parts)	stainless steel (301/1.4310); stainless steel (304/1.4301); PBT; brass chemically nickel-plated; PP; PPS; Polyolefin; O-ring: FKM
Process connection	threaded connection 3/4" NPT internal thread
Switching cycles mechanical	10 million

SBN333



Flow sensor with integrated backflow prevention

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Displays / operating elements

Display	switching status	4 x LED, yellow
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Accessories

Items supplied	Allen key
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Remarks

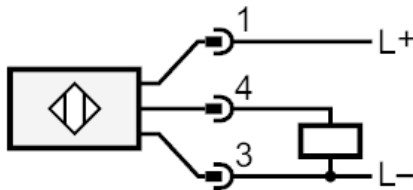
Remarks	Caution Do not turn the cap beyond the maximum value of the setting range.
	All data refer to water (68 °F).
Notes	Please note the changed housing design!
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



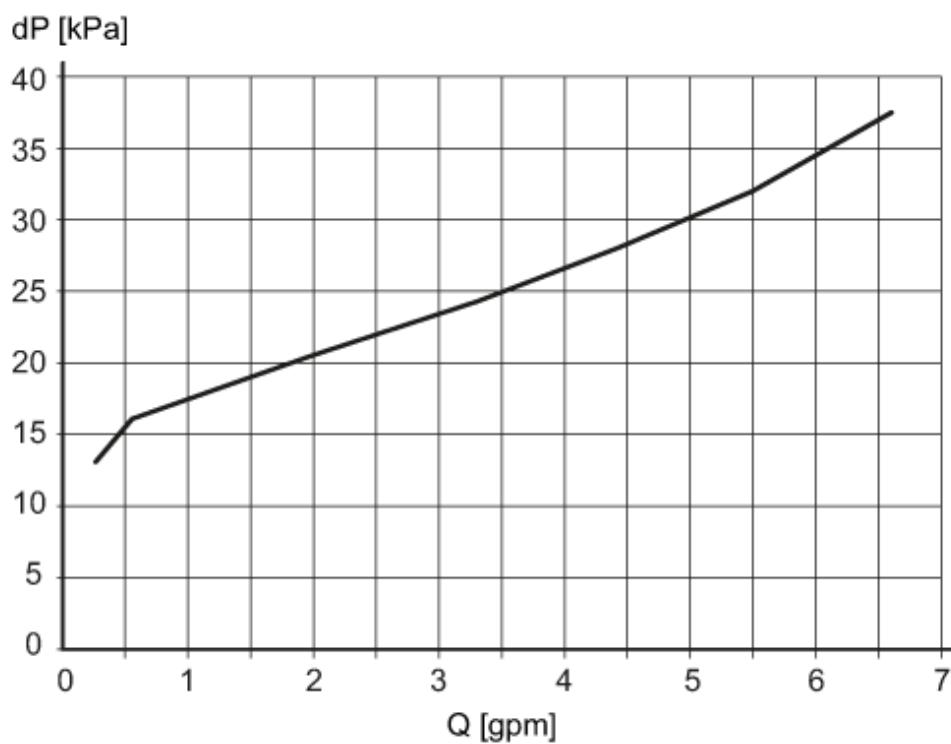


Flow sensor with integrated backflow prevention

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Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity