

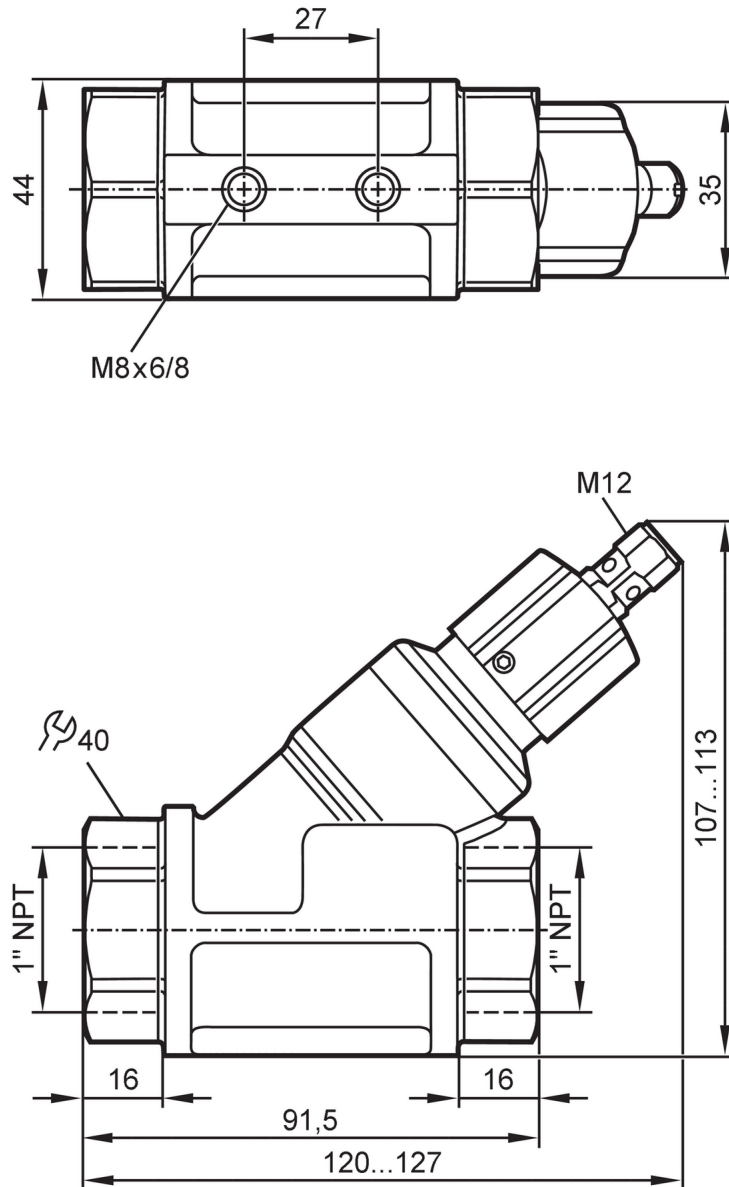
# SBN346



## Flow sensor with fast response time

SBY11BF0BPKG/US

Please note the changed housing design!



### Product characteristics

Number of inputs and outputs	Number of digital outputs: 1
Process connection	threaded connection 1" NPT Internal thread

### Application

Media	Liquids; water; glycol solutions; Coolants
Medium temperature [°F]	32...185
Pressure rating	25 bar 2.5 MPa

### Electrical data

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

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Protection class	III	
Reverse polarity protection	yes	
<b>Inputs / outputs</b>		
Number of inputs and outputs	Number of digital outputs: 1	
<b>Outputs</b>		
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	
<b>Measuring/setting range</b>		
Setting range [gpm]	1.32...26.4	
<b>Accuracy / deviations</b>		
Repeatability [% of the final value]	1	
Hysteresis [gpm]	0,8...1,58	
Measuring error [% of the final value]	± 5	
<b>Reaction times</b>		
Response time [s]	< 0.01	
<b>Operating conditions</b>		
Ambient temperature [°F]	32...140	
Storage temperature [°F]	5...176	
Protection	IP 65; IP 67	
<b>Tests / approvals</b>		
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]		3318
<b>Mechanical data</b>		
Weight [g]	1088.45	
Material	brass chemically nickel-plated; PPS; aluminum anodized; PA	
Materials (wetted parts)	stainless steel (1.4310 / 301); stainless steel (1.4301 / 304); PBT; brass chemically nickel-plated; PP; PPS; Polyolefin; O-ring: FKM	
Process connection	threaded connection 1" NPT Internal thread	
Switching cycles mechanical	10 million	

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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.
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	All data refer to water (68 °F).
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Notes	Please note the changed housing design!
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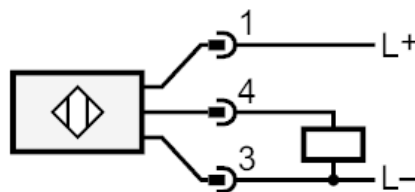
Pack quantity	1 pcs.
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### Electrical connection

Connector: 1 x M12; coding: A



### Connection



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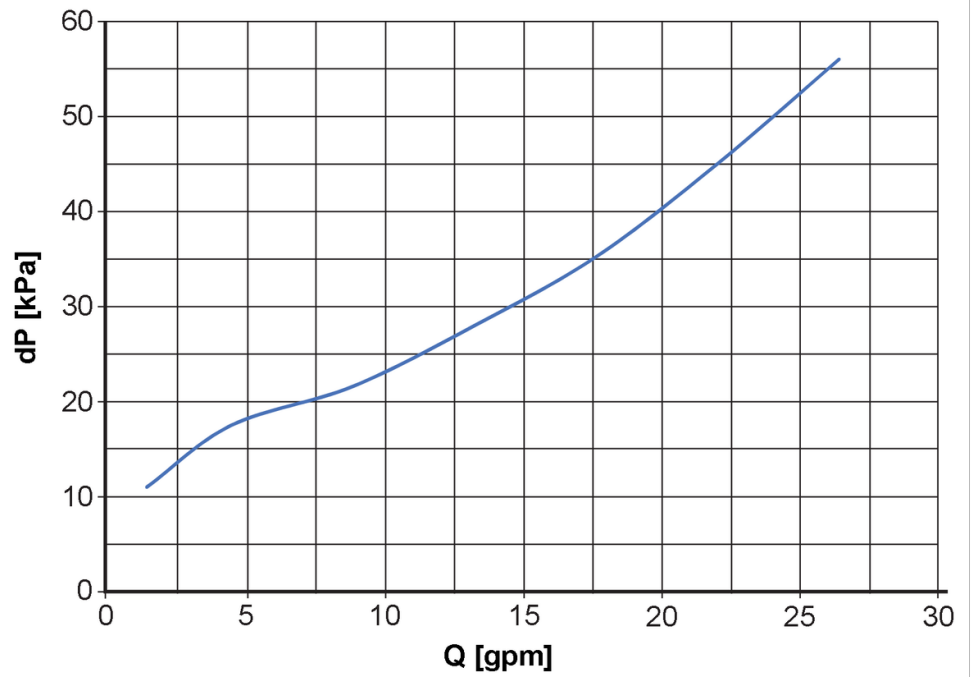


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### Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity