

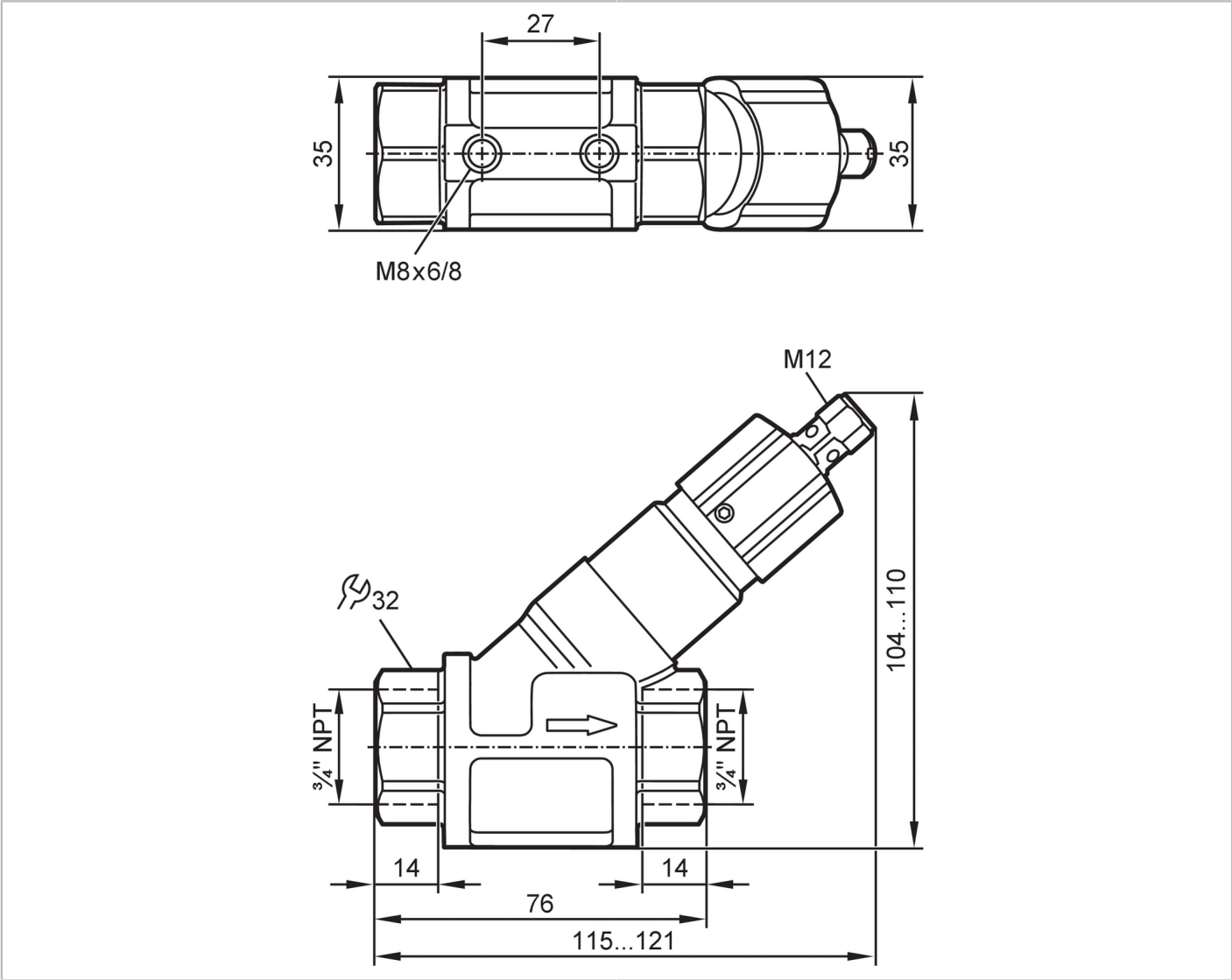
SBN333



Flow sensor with fast response time

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	
Protection class	III	
Reverse polarity protection	yes	



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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		1
[% of the final value]		
Hysteresis		0,13...0,53
[gpm]		
Measuring error		± 5
[% of the final value]		
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] 3318
Mechanical data		
Weight		[g] 578.25
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 3/4" NPT Internal thread
Switching cycles mechanical		10 million
Displays / operating elements		
Display		Switching status 4 x LED, yellow

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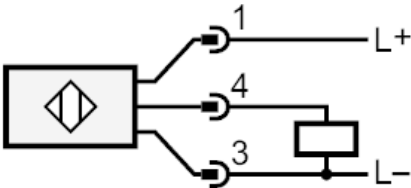
Accessories	
Items supplied	Allen key
Remarks	
Remarks	Caution Do not turn the cap beyond the maximum value of the setting range.
	All data refer to water (68 °F).
Notes	Please note the changed housing design!
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4



Connection



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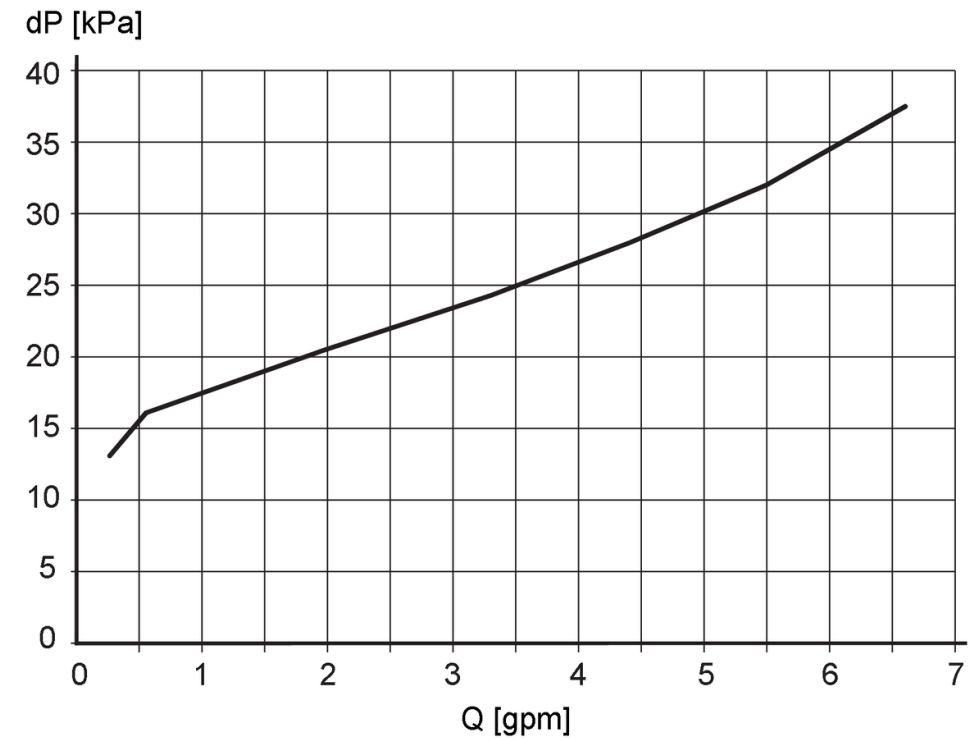


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Diagrams and graphs

Pressure loss



dP Pressure loss
Q volumetric flow quantity