

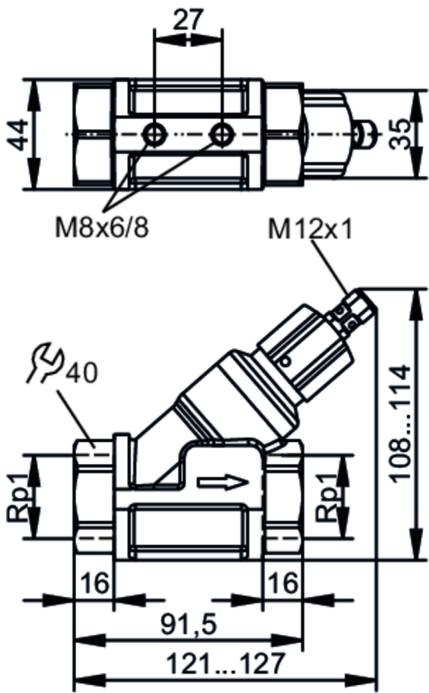
SBY346



Flow sensor with integrated backflow prevention

SBY11BF0BPKG/US

Please note the changed housing design!



Product characteristics		
Number of inputs and outputs	Number of digital outputs: 1	
Process connection	threaded connection Rp 1 internal thread	
Application		
Media	Liquids; water; glycol solutions; coolants	
Medium temperature [°C]	0...85	
Pressure rating	25 bar	2.5 MPa
Electrical data		
Operating voltage [V]	10...30 DC; (to SELV/PELV)	
Current consumption [mA]	< 15	
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	



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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	[l/min]	5...100
Accuracy / deviations		
Repeatability	[% of the final value]	1
Hysteresis	[l/min]	3...6
Measuring error	[% of the final value]	± 5
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]	3318
Mechanical data		
Weight	[g]	1066.9
Materials		brass chemically nickel-plated; PP; 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 Rp 1 internal thread
Switching cycles mechanical		10 million
Displays / operating elements		
Display	switching status	4 x LED, yellow
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 (20 °C).
Notes		Please note the changed housing design!
Pack quantity		1 pcs.

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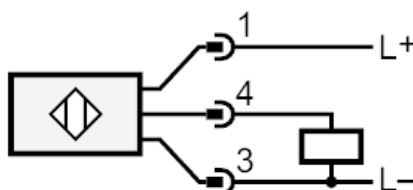
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Electrical connection

Connector: 1 x M12; coding: A

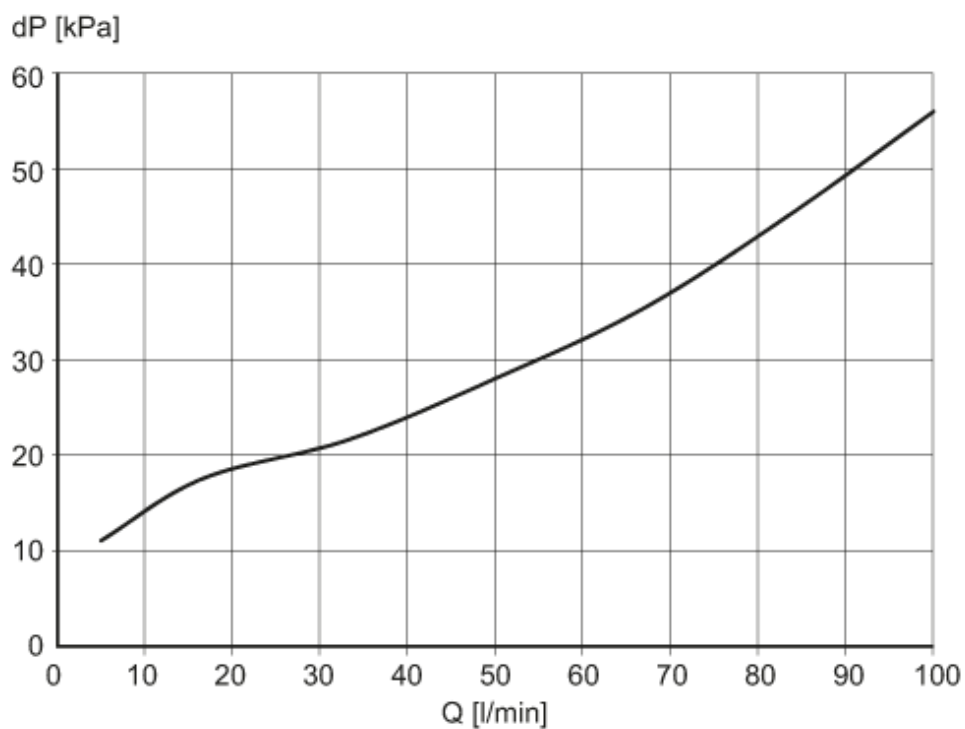


Connection



Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity