

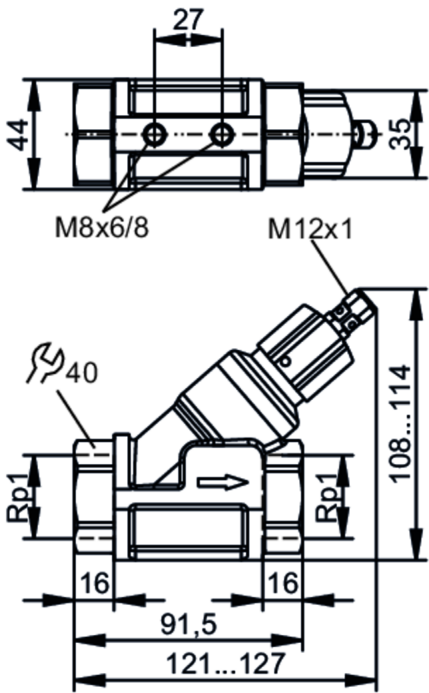
# SBY346



## 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	Rp 1
Application	
Media	Liquids; water; glycol solutions; coolants
Medium temperature [°C]	0...85
Pressure rating [bar]	25
Pressure rating [MPa]	2.5
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
<b>Measuring/setting range</b>		
Setting range	[l/min]	5...100
<b>Accuracy / deviations</b>		
Repeatability	[% of the final value]	1
Hysteresis	[l/min]	3...6
Measuring error	[% of the final value]	± 5
<b>Response times</b>		
Response time	[s]	< 0.01
<b>Operating conditions</b>		
Ambient temperature	[°C]	0...60
Storage temperature	[°C]	-15...80
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]	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		Rp 1
Switching cycles mechanical		10 million
<b>Displays / operating elements</b>		
Display	switching status	4 x LED, yellow
<b>Accessories</b>		
Items supplied		Allen key
<b>Remarks</b>		
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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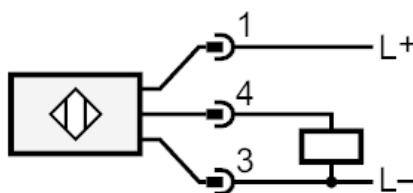
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### Electrical connection

Connector: 1 x M12; coding: A

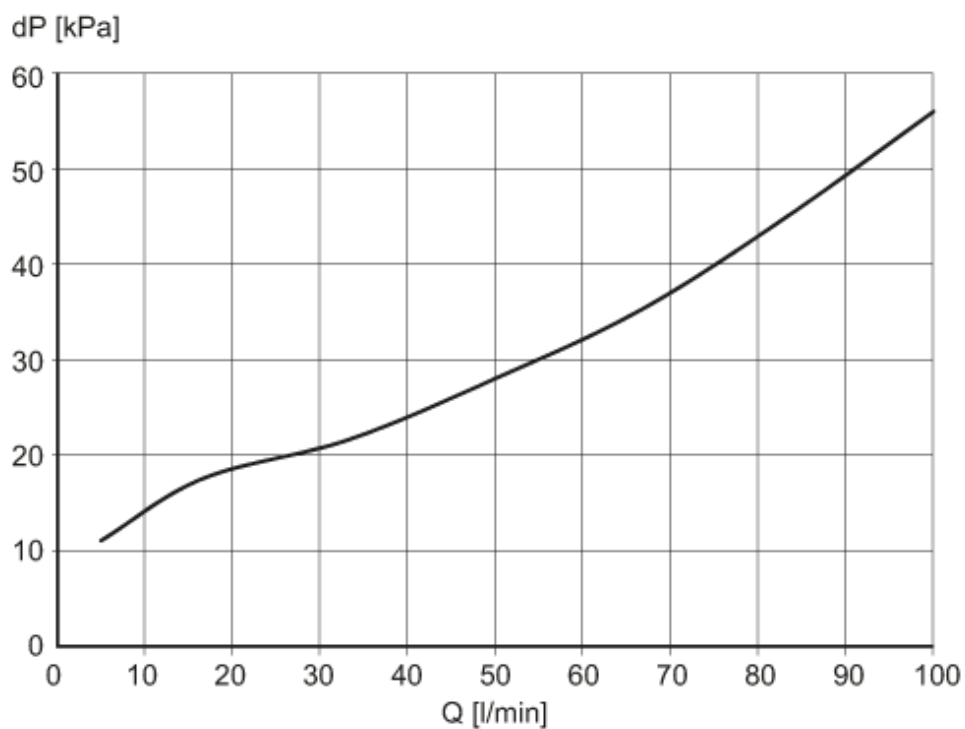


### Connection



### Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity