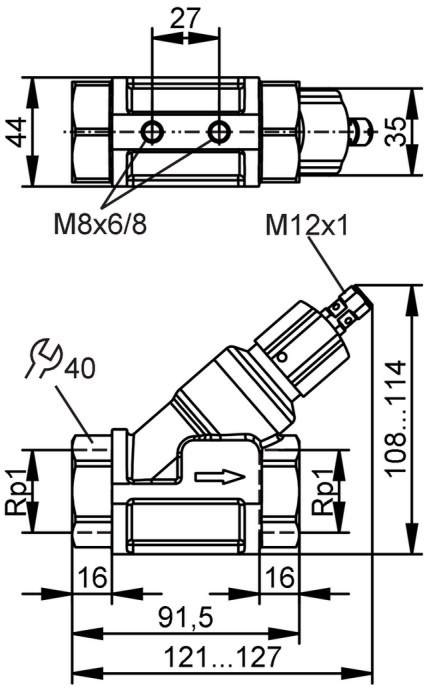
SBY346

Flow sensor with integrated backflow prevention

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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; 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	
Min. insulation resistance	[MΩ]	100; (500 V DC)	
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	

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Flow sensor with integrated backflow prevention

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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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Flow sensor with integrated backflow prevention

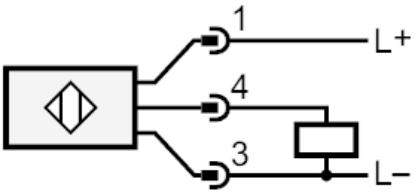
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Electrical connection

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

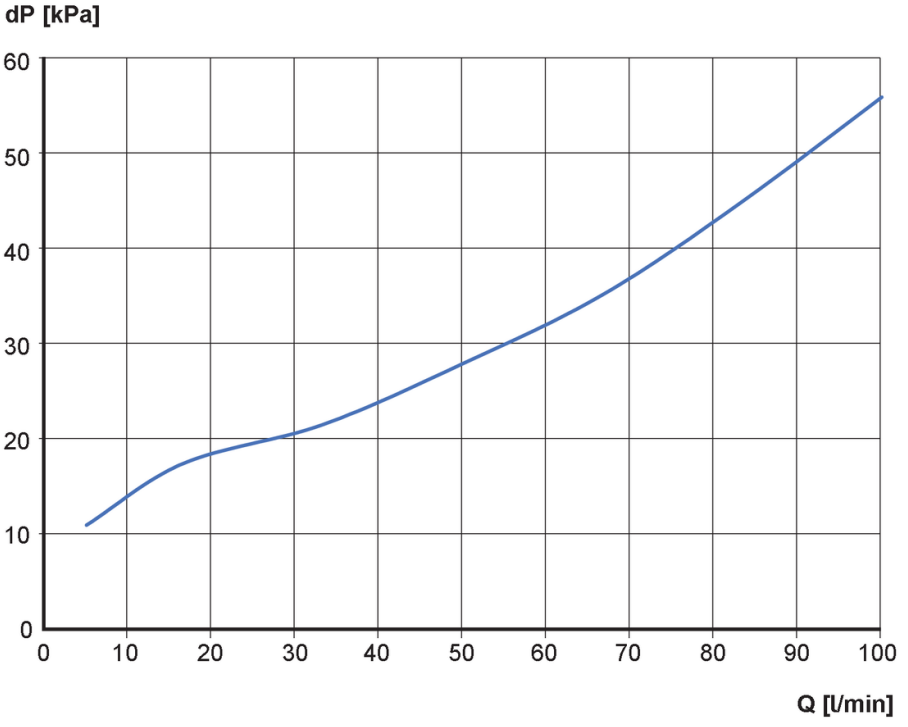


Connection



Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity