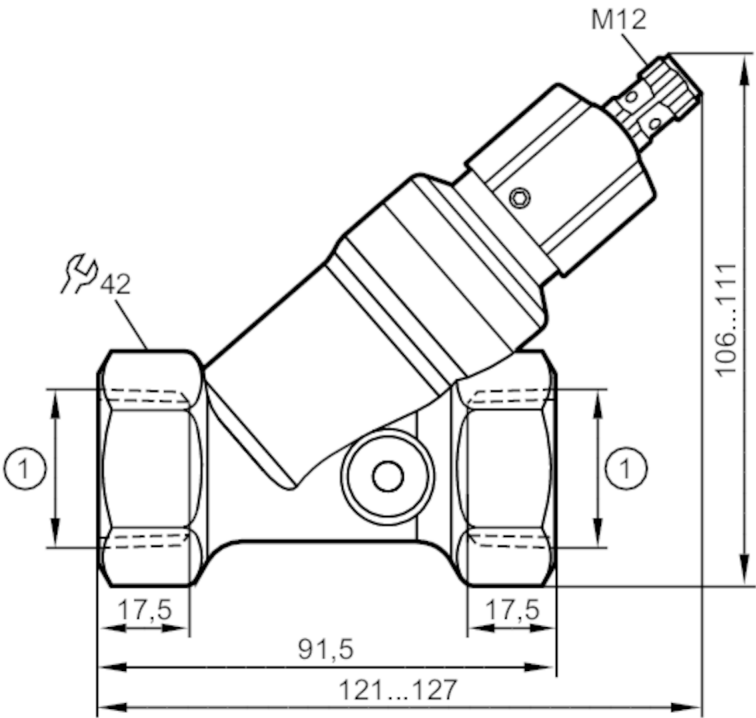


SBY346



Flow sensor with integrated backflow prevention

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1: Rp 1



Application

Media	Liquids; water; glycol solutions; oils; coolants	
Medium temperature	[°C]	0...85
Pressure rating	[bar]	25

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
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

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Flow sensor with integrated backflow prevention

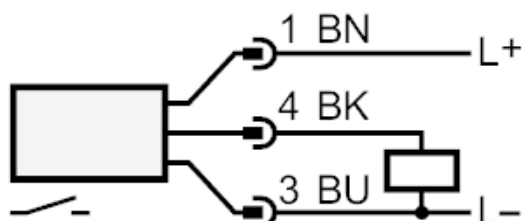
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Measuring/setting range		
Setting range	[l/min]	5...100
Accuracy / deviations		
Repeatability	[% of the final value]	1
Hysteresis		3...6
Measuring error	[% of the final value]	± 5
Response times		
Response time	[s]	< 0.01
Operating conditions		
Ambient 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]	15.78
Mechanical data		
Weight	[g]	698.6
Materials	brass chemically nickel-plated; PP; aluminium anodised; 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	Rp 1	
Switching cycles mechanical	10 million	
Displays / operating elements		
Display	switching status	4 x LED, yellow
Accessories		
Accessories (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).	
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12		
		

Flow sensor with integrated backflow prevention

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Connection



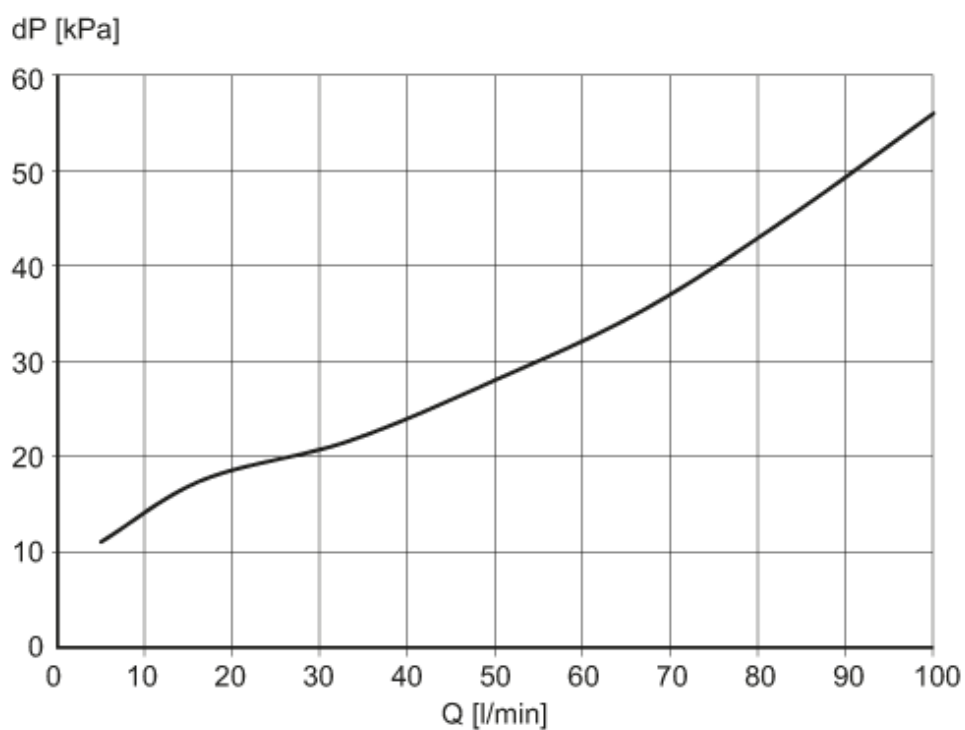
colours to DIN EN 60947-5-2

Core colours :

BK = black
BN = brown
BU = blue

Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity