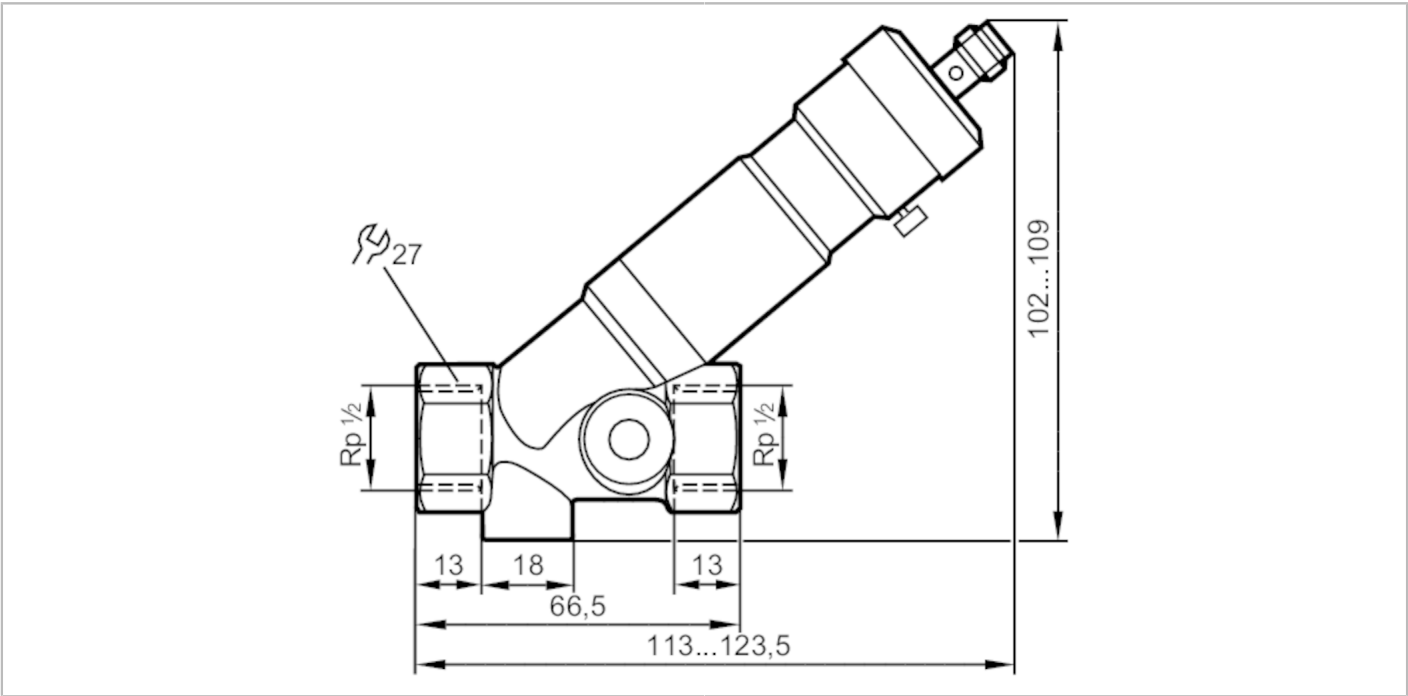


SBY323



Flow sensor with integrated backflow prevention

SBY12BF0BPKG/US



Product characteristics	
Number of inputs and outputs	Number of digital outputs: 1
Process connection	Rp 1/2
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
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100

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Flow sensor with integrated backflow prevention

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Short-circuit protection	yes
Overload protection	yes

Measuring/setting range

Setting range	[l/min]	2...20
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Accuracy / deviations

Repeatability	[X16]	1
Hysteresis	[l/min]	0,3...4
Measuring error	[X16]	± 5

Response times

Response time	[s]	< 0.01
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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	[ANN]	15.78

Mechanical data

Weight	[g]	388.5
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; O-ring: FKM
Process connection		Rp 1/2
Switching cycles mechanical		10 million

Displays / operating elements

Display	switching status	4 x LED, yellow
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Аксессуары

Items supplied	Allen key
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Remarks

Remarks	Caution Do not turn the setting screw beyond the maximum value of the setting range. All data refer to water (20 °C).
Pack quantity	1 pcs.

Electrical connection

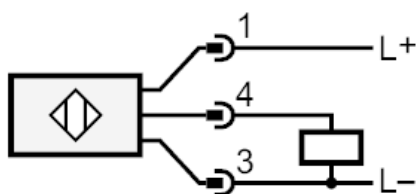
Connector: 1 x M12; coding: A



Flow sensor with integrated backflow prevention

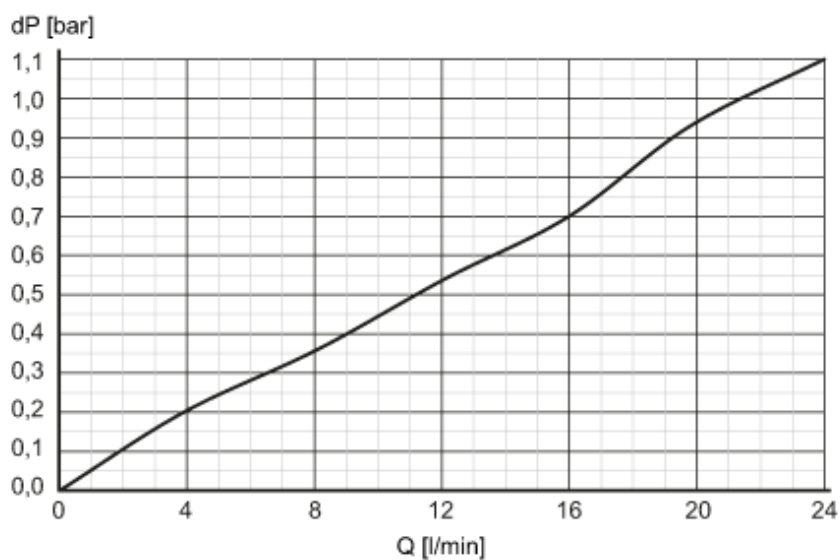
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Connection



Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity