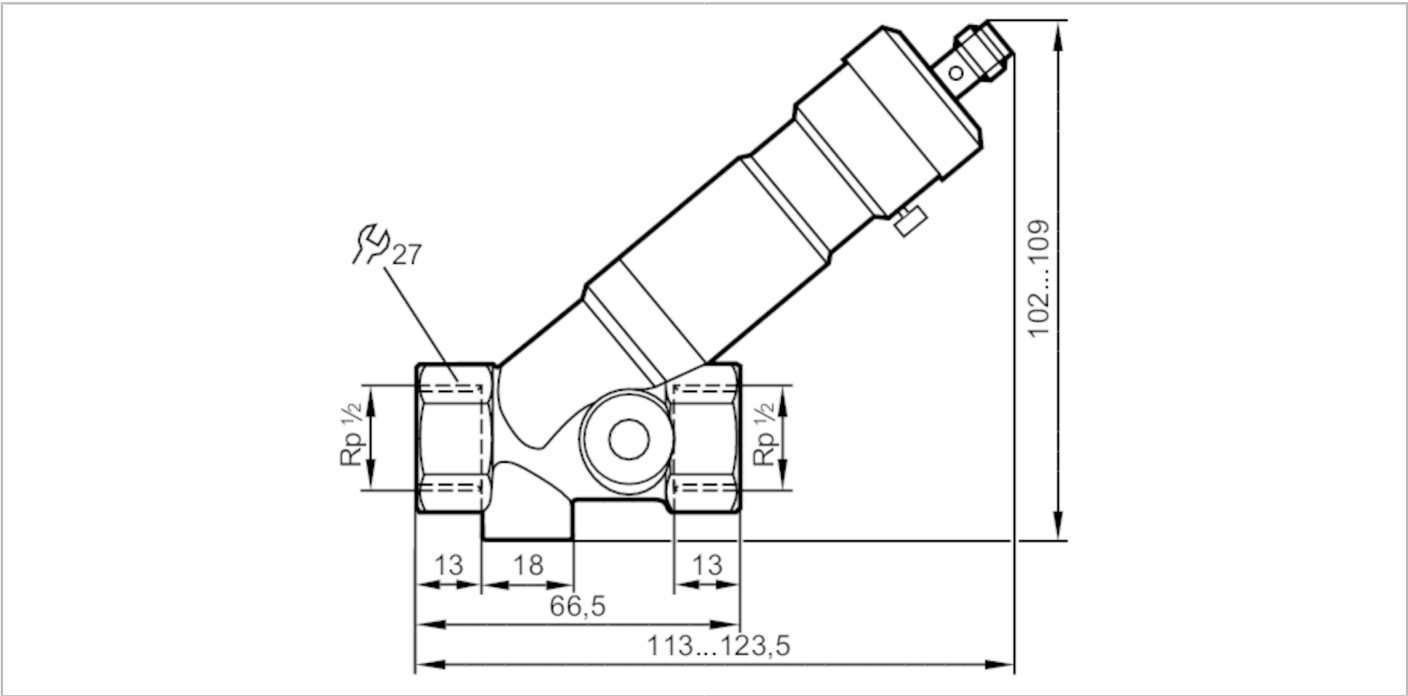


SBY323



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

SBY323



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
Accuracy / deviations	
Repeatability [% of the final value]	1
Hysteresis [l/min]	0,3...4
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]	388.5
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; O-ring: FKM
Process connection	Rp 1/2
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 setting screw beyond the maximum value of the setting range. All data refer to water (20 °C).
Pack quantity	1 pcs.

Flow sensor with integrated backflow prevention

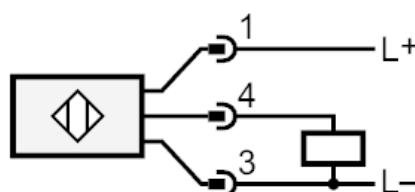
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Electrical connection

Connector: 1 x M12; coding: A

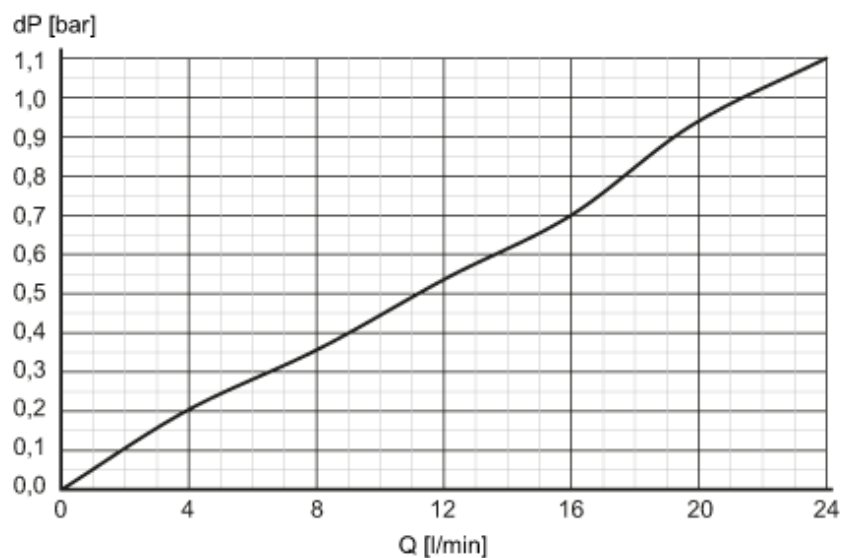


Connection



Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity