

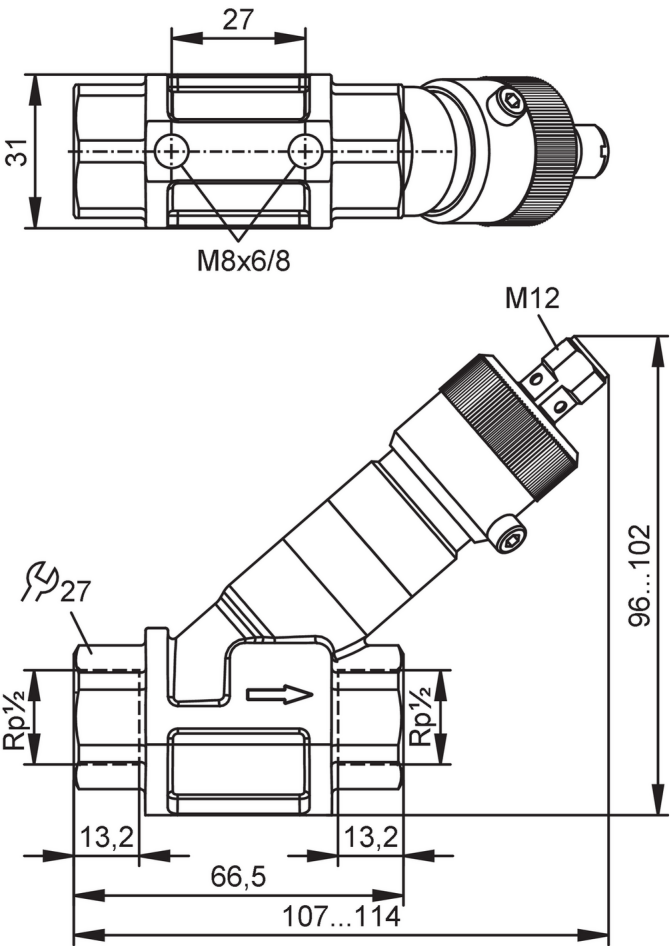
SBY323



Flow sensor with fast response time

SBY12BF0BPKG/US

Please note the changed housing design!



Product characteristics		
Number of inputs and outputs	Number of digital outputs: 1	
Process connection	threaded connection Rp 1/2 Internal thread	
Application		
Media	Liquids; water; glycol solutions; 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	
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	

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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

Measuring/setting range

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

Repeatability [% of the final value]	1
Hysteresis [l/min]	0,3...4
Measuring error [% of the final value]	± 5

Reaction 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 [years]		3387

Mechanical data

Weight [g]	422.75
Material	brass chemically nickel-plated; PP; aluminum anodized; 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	threaded connection Rp 1/2 Internal thread
Switching cycles mechanical	10 million

Displays / operating elements

Display	Switching status	4 x LED, yellow
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Accessories

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).
Notes	Please note the changed housing design!

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Pack quantity

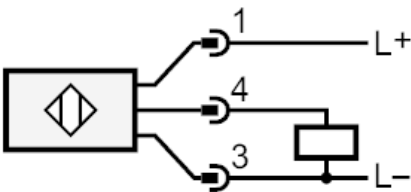
1 pcs.

Electrical connection

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

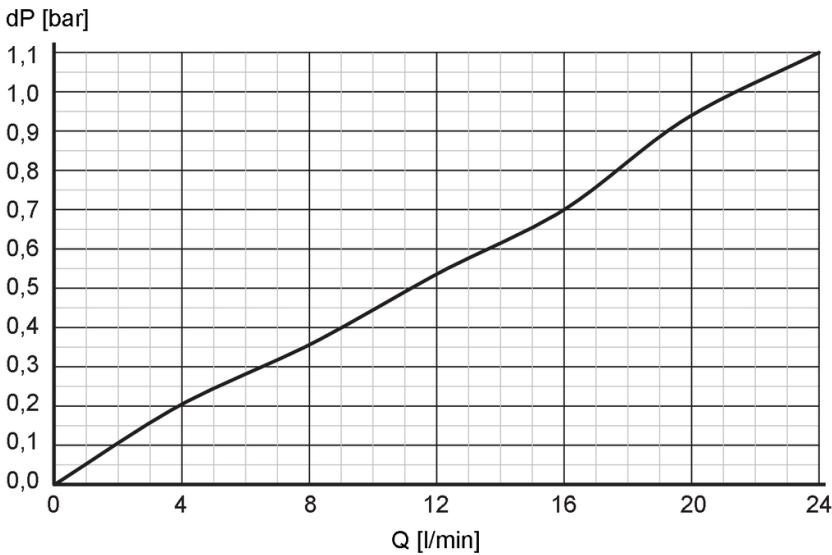


Connection



Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity