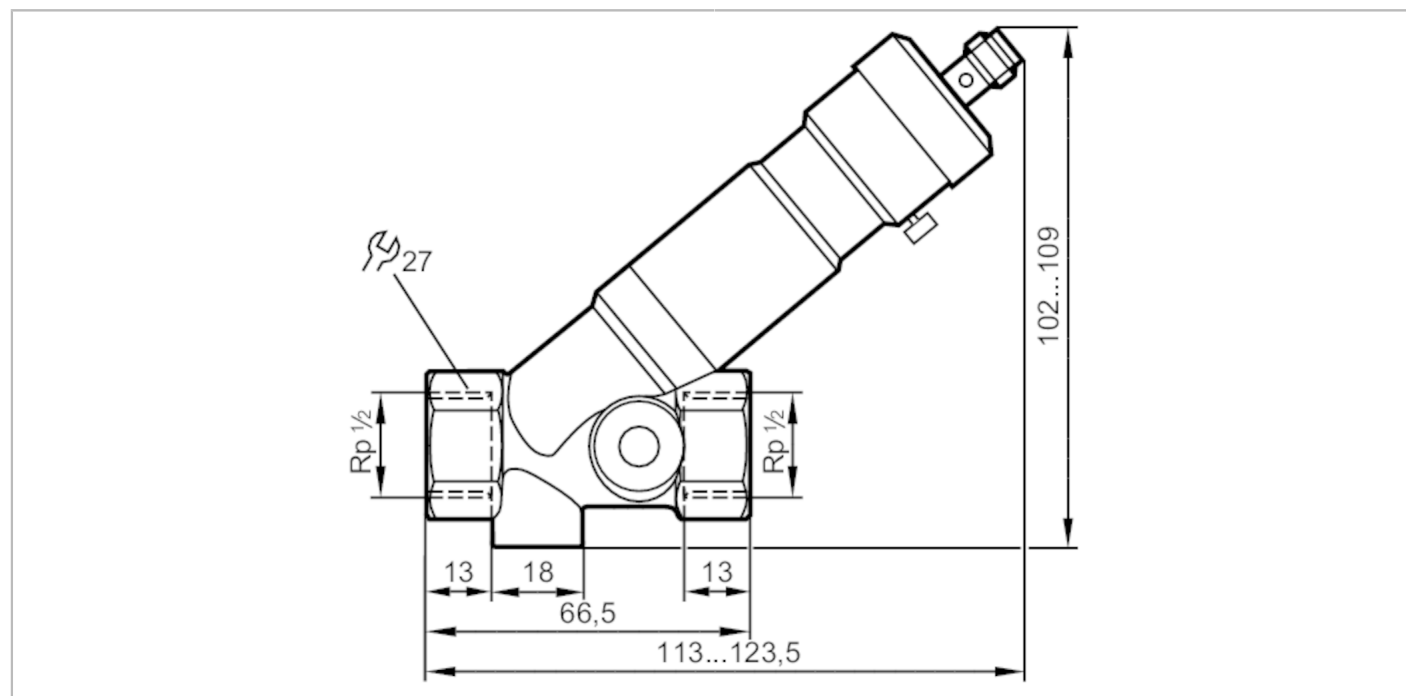


SBY323



Flow sensor with integrated backflow prevention

SBY12BF0BPKG/US



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
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
Measuring/setting range		
Setting range	[l/min]	2...20
Accuracy / deviations		
Repeatability		1

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Flow sensor with integrated backflow prevention

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	[% of the final value]	
Hysteresis	[l/min]	0,3...4
Measuring error	[% of the final value]	± 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	[years]	15.78

Mechanical data

Weight	[g]	449.2
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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Accessories

Accessories (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

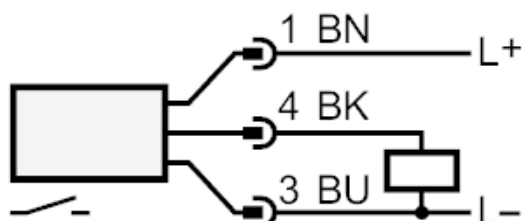
Connector: 1 x M12



Flow sensor with integrated backflow prevention

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Connection



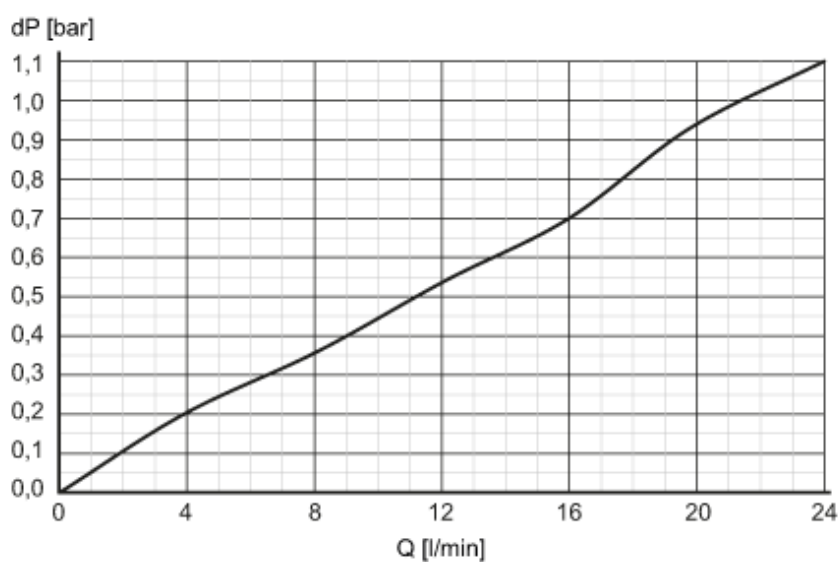
colours to DIN EN 60947-5-2

Core colours :

BK = black
BN = brown
BU = blue

Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity