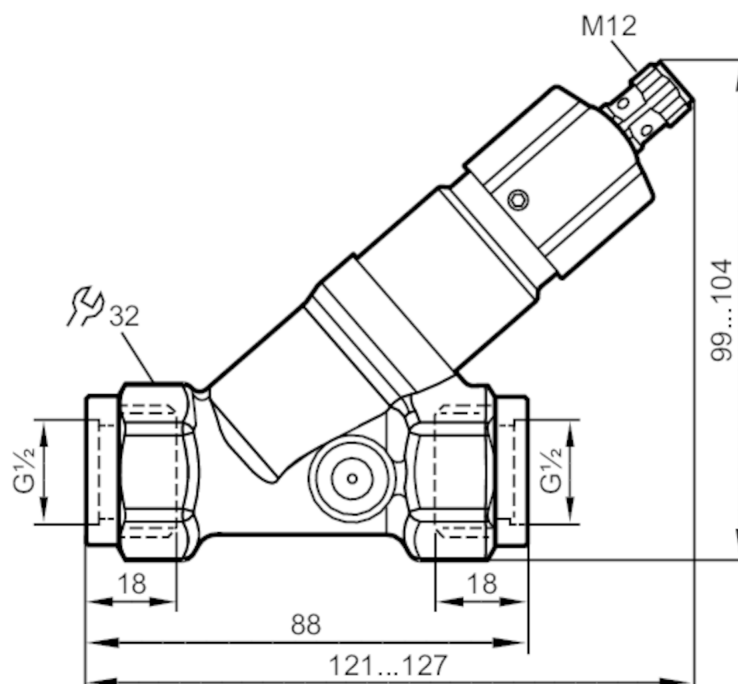


Flow sensor with integrated backflow prevention

SBG34BF0BPKG/US



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1
Process connection	threaded connection G 1/2

Application

Media	Liquids; water; glycol solutions; oils; coolants
Medium temperature [°C]	0...85
Pressure rating [bar]	40
Pressure rating [MPa]	4

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



Flow sensor with integrated backflow prevention

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Permanent current rating of switching output DC	[mA]	100
Short-circuit protection		yes
Overload protection		yes
Measuring/setting range		
Setting range	[l/min]	2...50
Accuracy / deviations		
Repeatability		1
	[% of the final value]	
Hysteresis	[l/min]	1...3
Measuring error		± 5
	[% of the final value]	
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]	3318
Mechanical data		
Weight	[g]	542
Materials		brass chemically nickel-plated; PPS; aluminium anodised; PA
Materials (wetted parts)		stainless steel (301/1.4310); stainless steel (304/1.4301); PBT; brass chemically nickel-plated; PP; PPS; Polyolefin; O-ring: FKM
Process connection		threaded connection G 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 cap beyond the maximum value of the setting range. All data refer to water (20 °C).
Pack quantity		1 pcs.

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Flow sensor with integrated backflow prevention

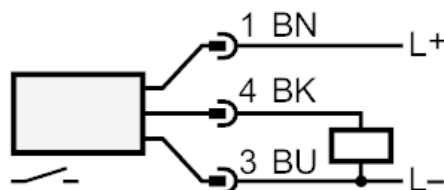
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Electrical connection

Connector: 1 x M12; coding: A



Connection



colours to DIN EN 60947-5-2

Core colours :

BK = black
BN = brown
BU = blue

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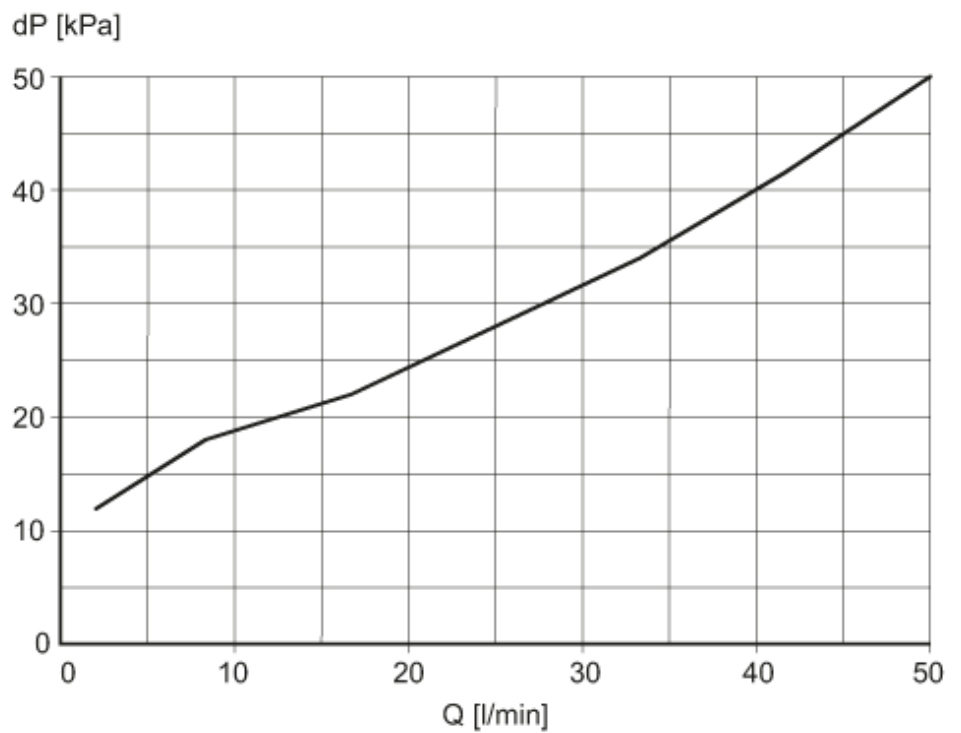


Flow sensor with integrated backflow prevention

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Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity