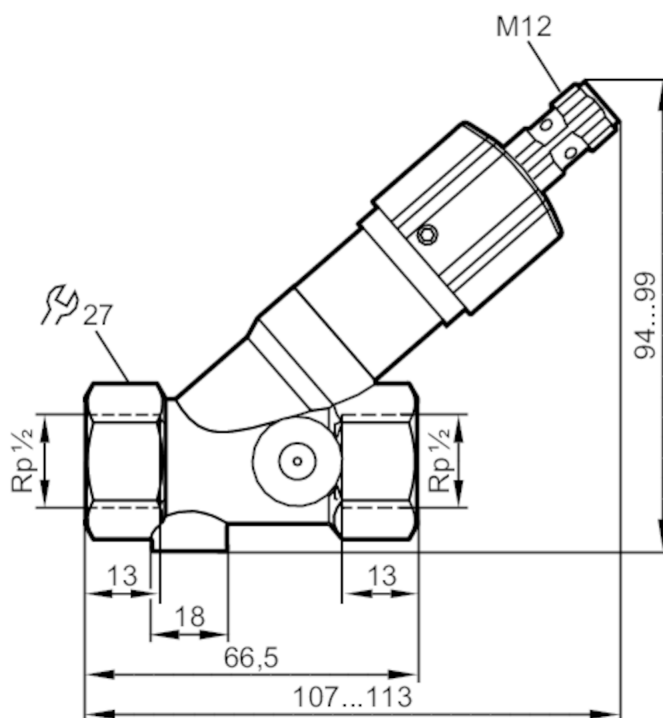


SBY321



Flow sensor with integrated backflow prevention

SBY12IR0BPKG/US



Application

Media	Liquids; water; glycol solutions; oils; coolants	
Medium temperature	[°C]	0...85
Pressure rating	[bar]	80

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
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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

SBY321



Flow sensor with integrated backflow prevention

SBY121R0BPKG/US

Measuring/setting range		
Setting range	[l/min]	0.2...4
Accuracy / deviations		
Repeatability	[% of the final value]	1
Hysteresis		0,1...0,2
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)
Mechanical data		
Weight	[g]	432
Materials		brass chemically nickel-plated; aluminium anodised; PA
Materials (wetted parts)		stainless steel (1.4310 / 301); stainless steel (1.4401 / 316); PBT; brass chemically nickel-plated; PPS; O-ring: FKM Polyolefin
Process connection		Rp 1/2
Switching cycles mechanical		10 million
Displays / operating elements		
Display	switching status	4 x LED, yellow
Accessories		
Accessories (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.
Electrical connection		

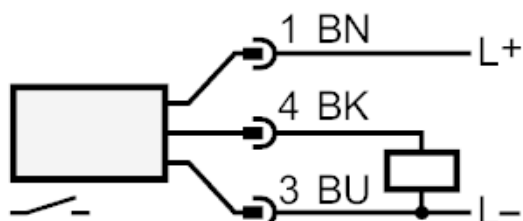
Connector: 1 x M12



Flow sensor with integrated backflow prevention

SBY12IR0BPKG/US

Connection



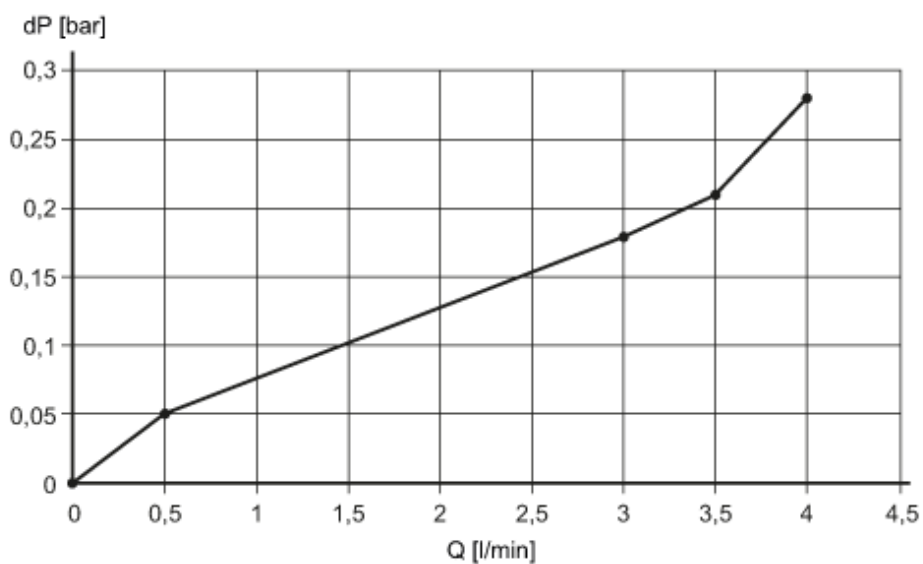
colours to DIN EN 60947-5-2

Core colours :

BK = black
BN = brown
BU = blue

Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity