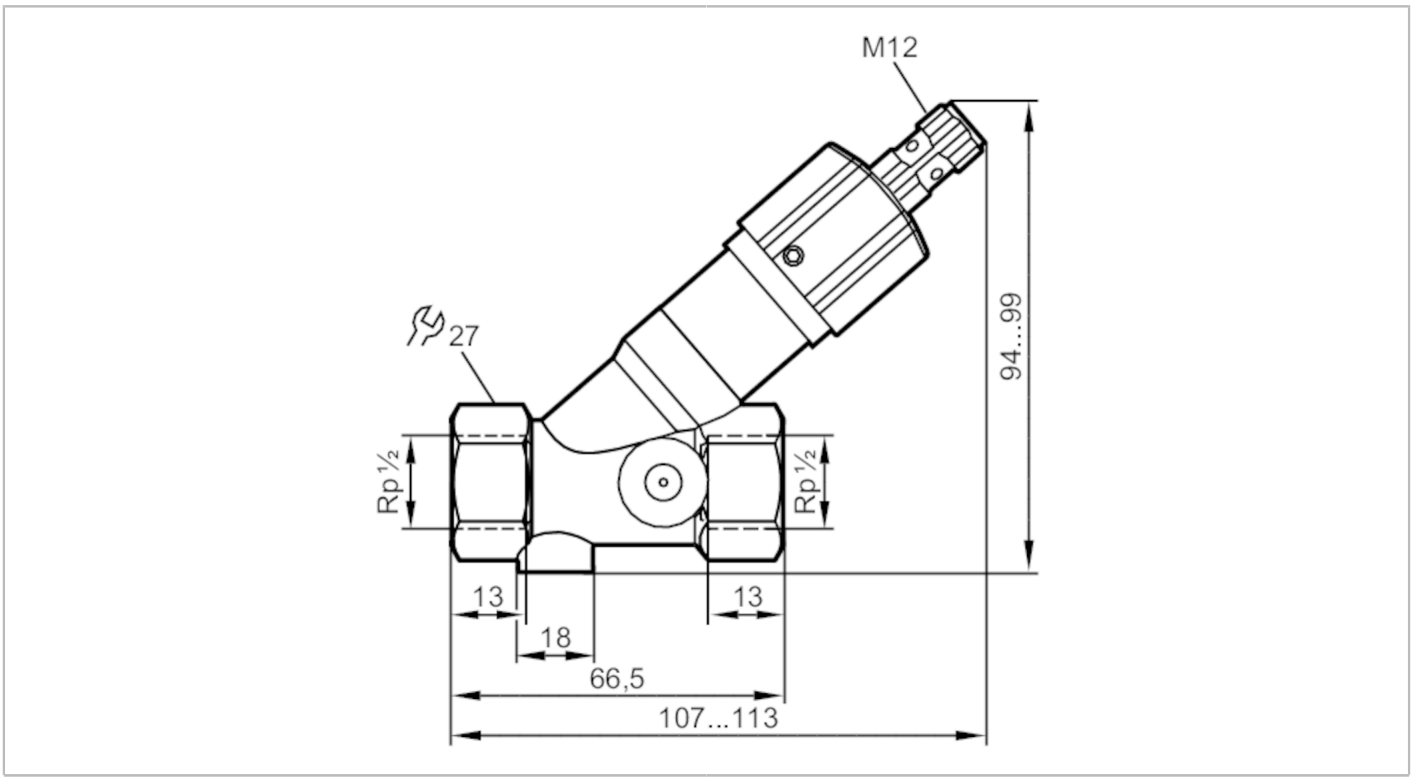
SBY321

Flow sensor with fast response time

SBY12IR0BPKG/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]	80
Pressure rating	[Mpa]	8
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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Flow sensor with fast response time

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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	
Measuring/setting range			
Setting range	[l/min]	0.2...4	
Accuracy / deviations			
Repeatability	[% of the final value]	1	
Hysteresis	[l/min]	0,1...0,2	
Measuring error	[% of the final value]	± 5	
Reaction 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]	434	
Material		brass chemically nickel-plated; aluminum anodized; 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			
Items supplied		Allen key	

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Remarks

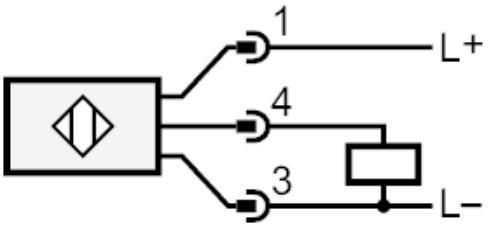
Remarks	Caution Do not turn the setting screw beyond the maximum value of the setting range.
	All data refer to water (20 °C).
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



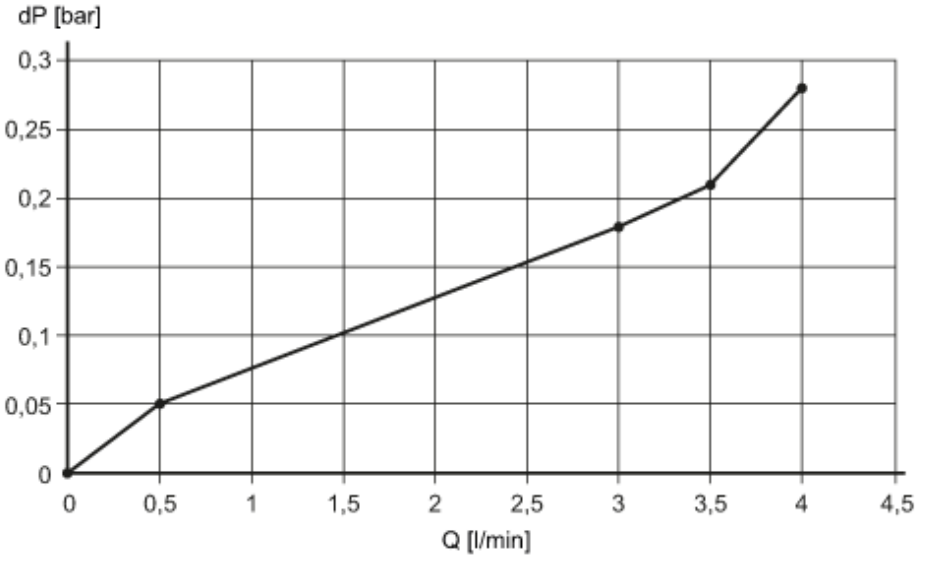
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Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity