

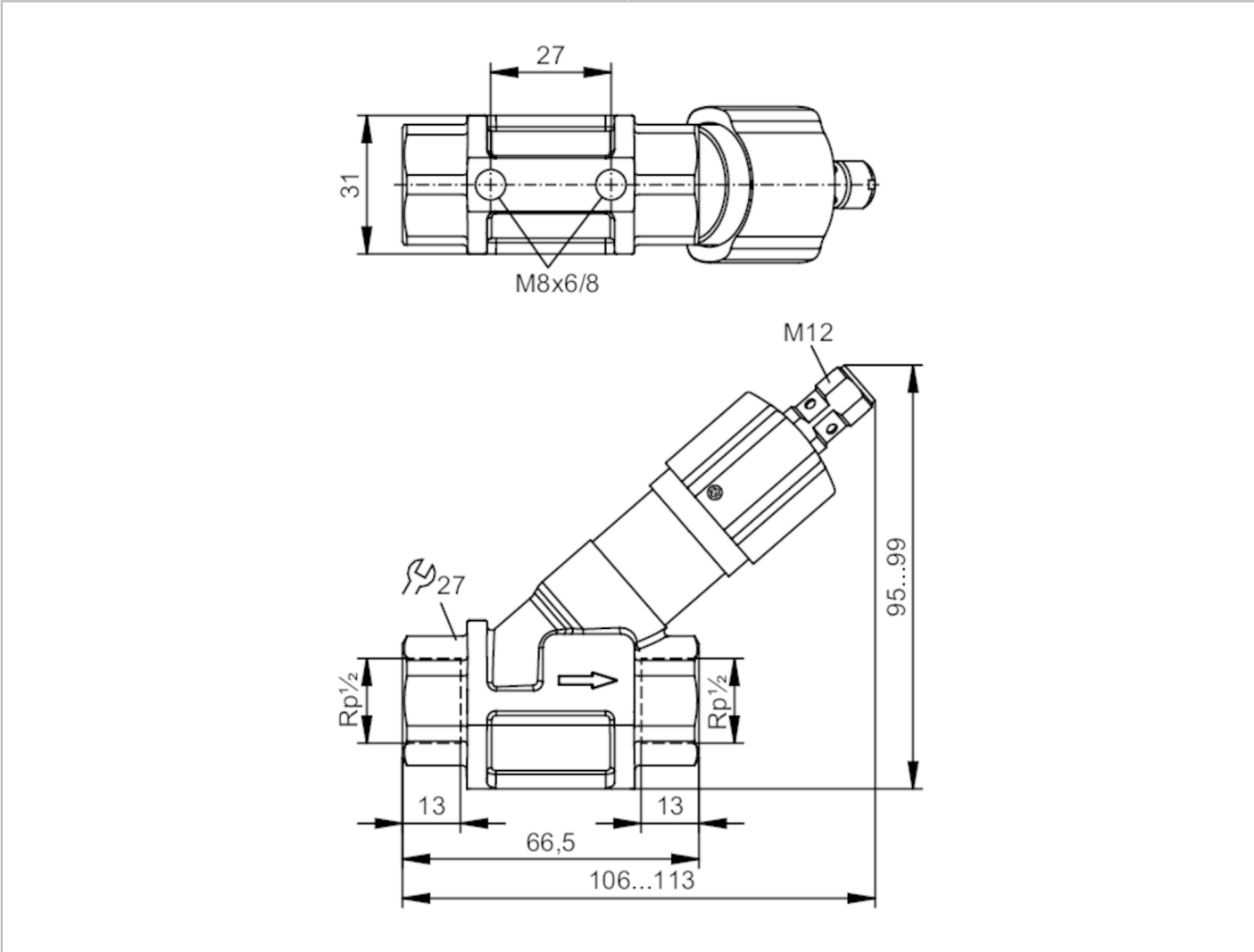
SBY321



Flow sensor with integrated backflow prevention

SBY12IR0BPKG/US

Please note the changed housing design!



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



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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	
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	
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]		3387	
Mechanical data			
Weight [g]		474.05	
Materials		brass chemically nickel-plated; aluminium anodised; PA	
Materials (wetted parts)		stainless steel (301/1.4310); stainless steel (316 / 1.4401); 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

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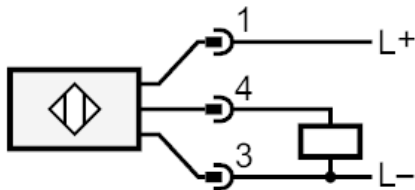
Accessories	
Items supplied	Allen key
Remarks	
Remarks	Caution Do not turn the setting screw beyond the maximum value of the setting range.
	All data refer to water (20 °C).
Notes	Please note the changed housing design!
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



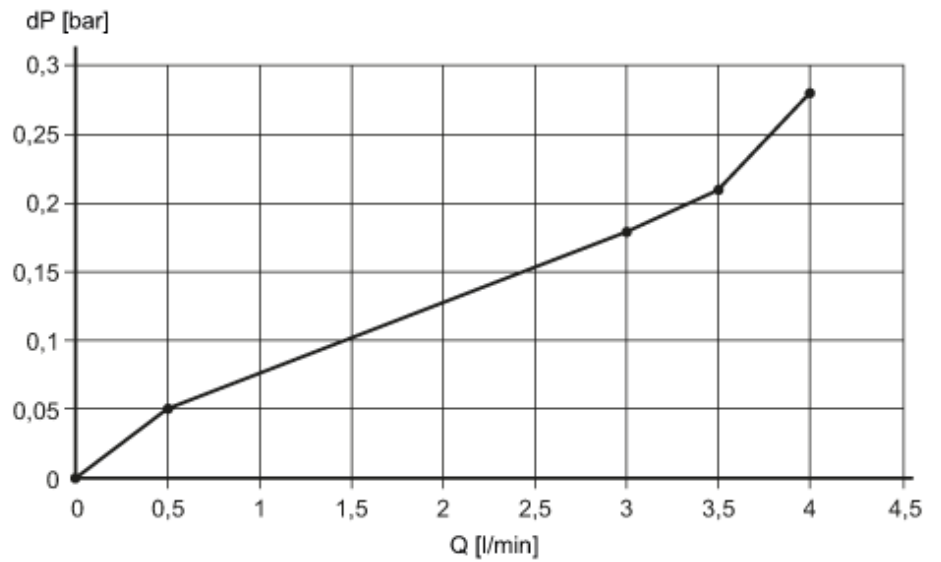


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Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity