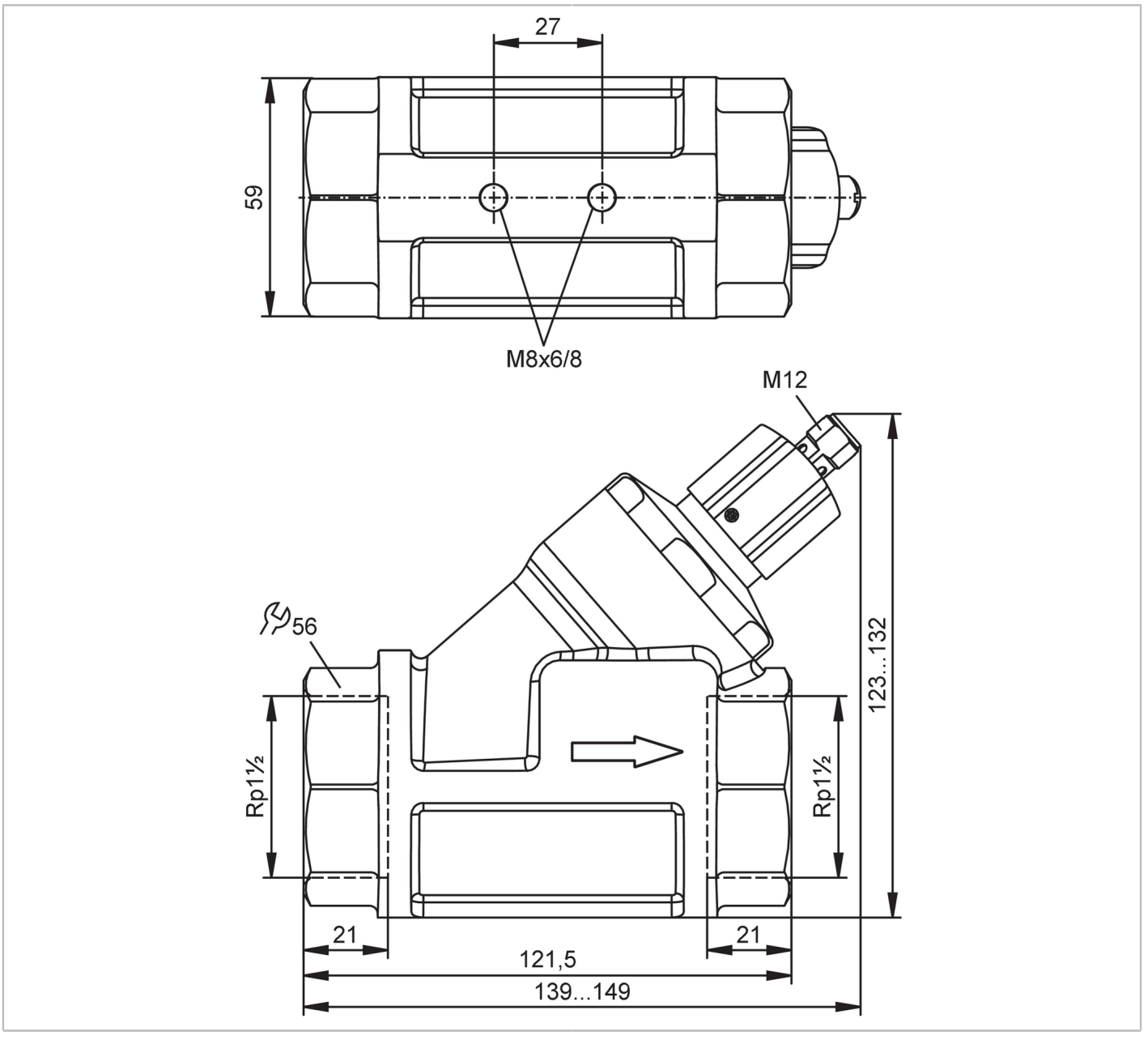
SBY357

Flow sensor with integrated backflow prevention

SBY32BF0BPKG/US

Please note the changed housing design!



Product characteristics			
Number of inputs and outputs		Number of digital outputs: 1	
Process connection		threaded connection Rp 1 1/2 internal thread	
Application			
Media		Liquids; water; coolants	
Medium temperature	[°C]	0...85	
Pressure rating		25 bar	2.5 MPa
Electrical data			
Operating voltage	[V]	10...30 DC; (to SELV/PELV)	

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Current consumption	[mA]	< 15
Min. insulation resistance	[MΩ]	100; (500 V DC)
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
Permanent current rating of switching output DC	[mA]	100
Short-circuit protection		yes
Overload protection		yes
Measuring/setting range		
Setting range	[l/min]	20...200
Accuracy / deviations		
Repeatability	[% of the final value]	1
Hysteresis	[l/min]	5...10
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]	3318
Mechanical data		
Weight	[g]	2141.8
Materials		brass chemically nickel-plated; PP; aluminium anodised; PA
Materials (wetted parts)		stainless steel (301/1.4310); stainless steel (304/1.4301); PBT; brass chemically nickel-plated; PP; PPS; spacer: POM; Polyolefin; O-ring: FKM
Process connection		threaded connection Rp 1 1/2 internal thread
Switching cycles mechanical		10 million

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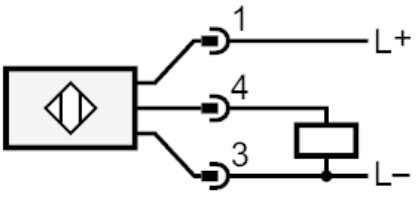
Displays / operating elements		
Display	switching status	4 x LED, yellow
Accessories		
Items supplied	Allen key	
Remarks		
Remarks	Caution Do not turn the cap beyond the maximum value of the setting range.	
	All data refer to water (20 °C).	
Notes	Please note the changed housing design!	
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4



Connection



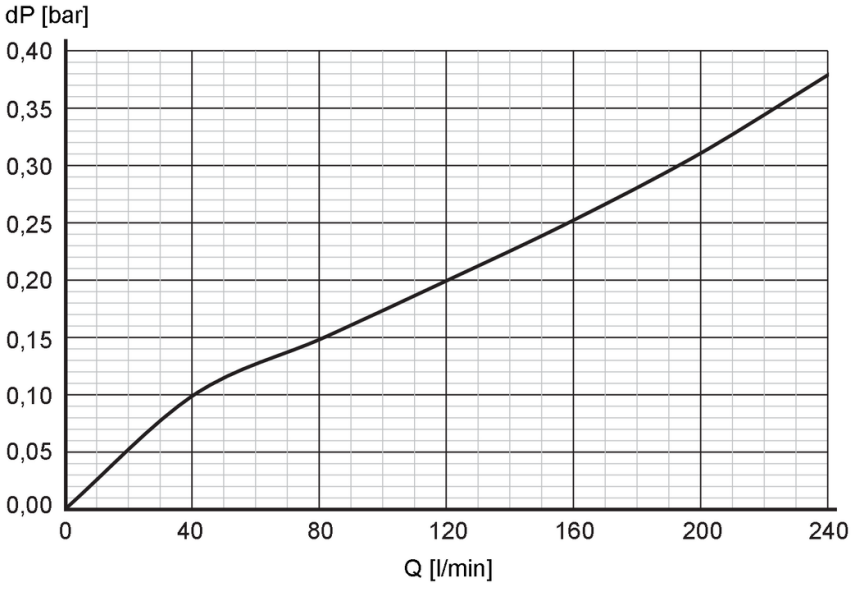
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Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity