

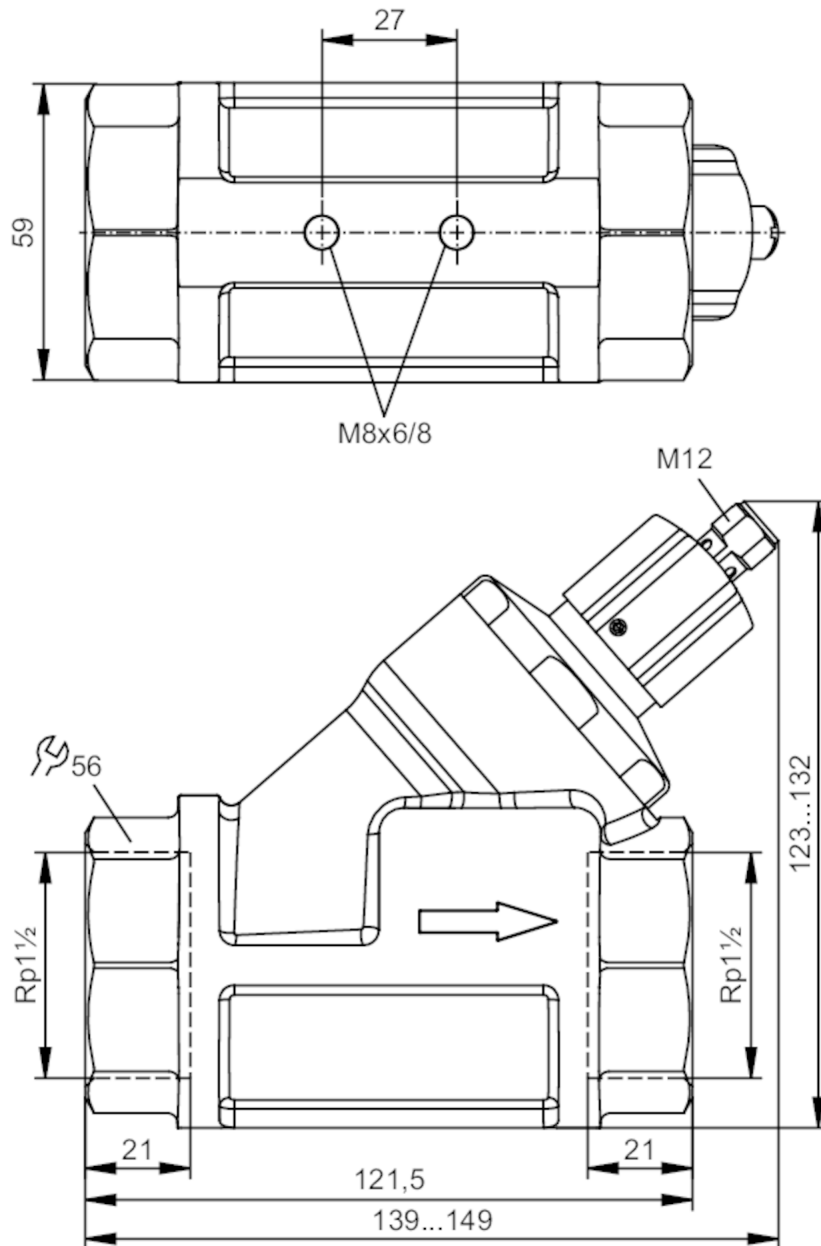
# SBY357



## 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; glycol solutions; coolants
Medium temperature [°C]	0...85
Pressure rating	25 bar 2.5 MPa

### Electrical data

Operating voltage [V]	10...30 DC; (to SELV/PELV)
-----------------------	----------------------------

# SBY357



## Flow sensor with integrated backflow prevention

SBY32BF0BPKG/US

Current consumption	[mA]	< 15
Protection class		III
Reverse polarity protection		yes
<b>Inputs / outputs</b>		
Number of inputs and outputs		Number of digital outputs: 1
<b>Outputs</b>		
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
<b>Measuring/setting range</b>		
Setting range	[l/min]	20...200
<b>Accuracy / deviations</b>		
Repeatability	[% of the final value]	1
Hysteresis	[l/min]	5...10
Measuring error	[% of the final value]	± 5
<b>Response times</b>		
Response time	[s]	< 0.01
<b>Operating conditions</b>		
Ambient temperature	[°C]	0...60
Storage temperature	[°C]	-15...80
Protection		IP 65; IP 67
<b>Tests / approvals</b>		
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
<b>Mechanical data</b>		
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

# SBY357



## Flow sensor with integrated backflow prevention

SBY32BF0BPKG/US

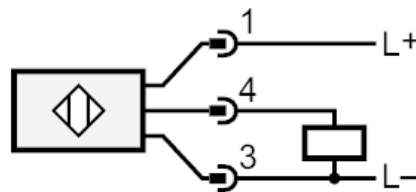
Displays / operating elements		
Display	switching status	4 x LED, yellow
Accessories		
Items supplied	Allen key	
Remarks		
Remarks	Caution Do not turn the cap beyond the maximum value of the setting range. All data refer to water (20 °C).	
Notes	Please note the changed housing design!	
Pack quantity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

### Electrical connection

Connector: 1 x M12; coding: A



### Connection



# SBY357

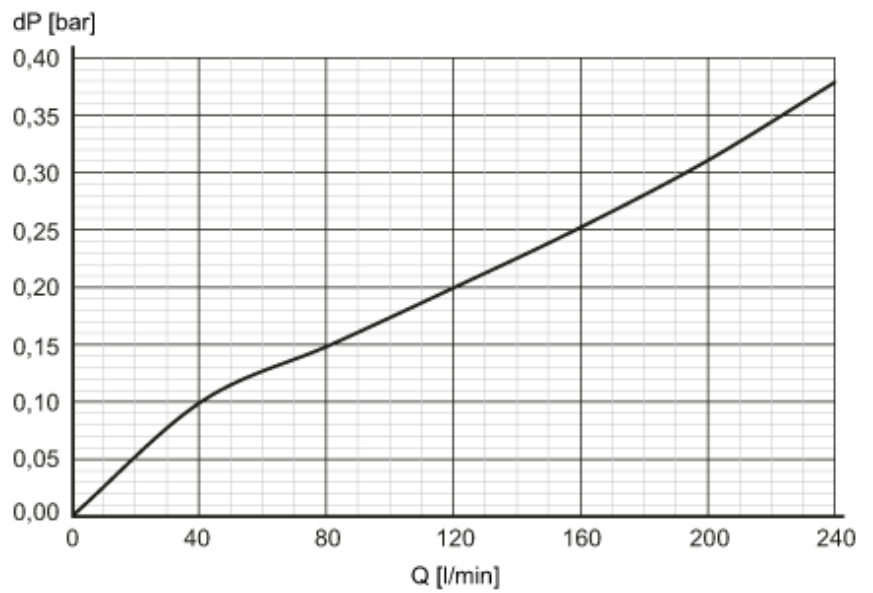


## Flow sensor with integrated backflow prevention

SBY32BF0BPKG/US

### Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity