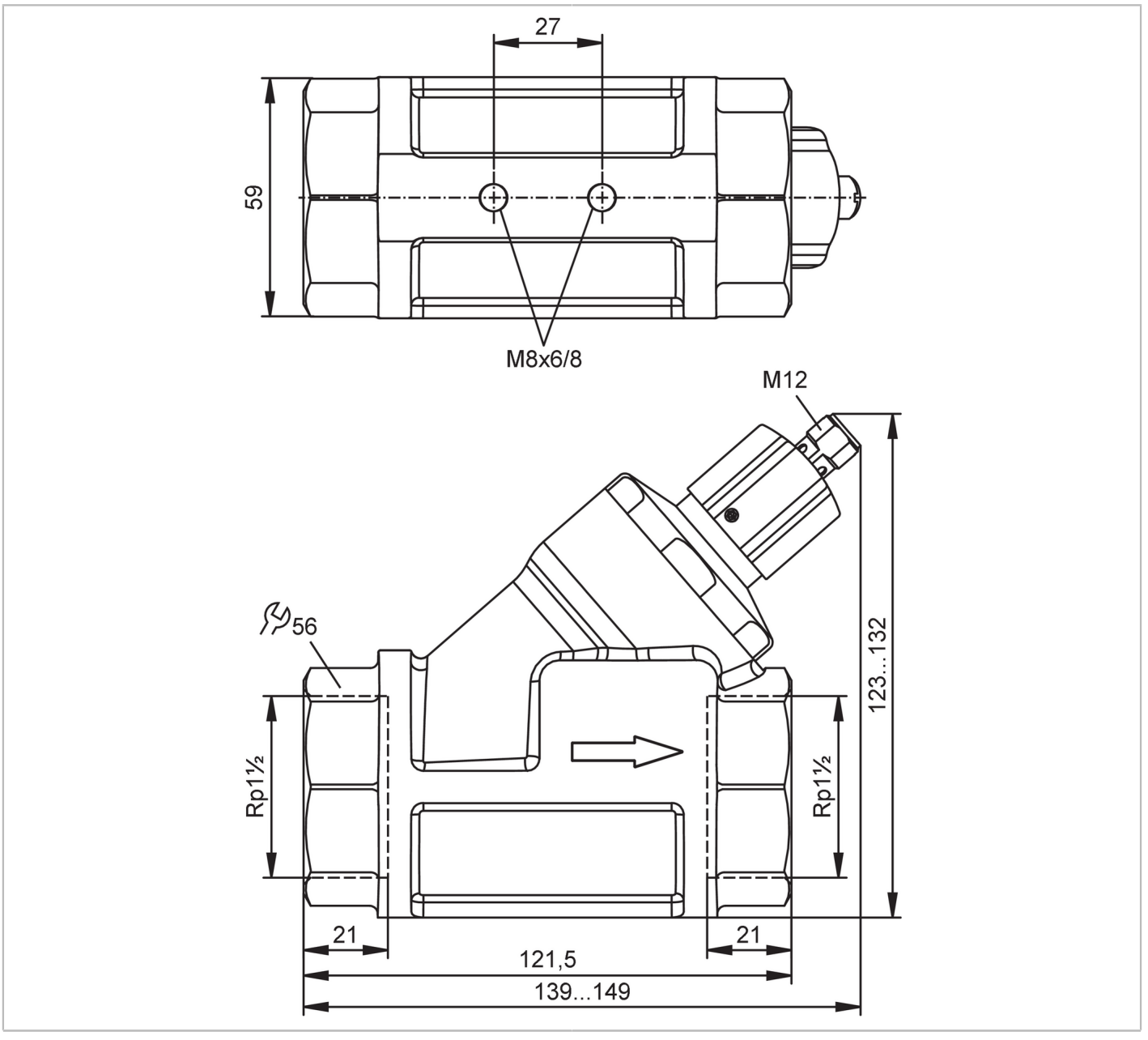
SBY357

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	
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	

SBY357

Flow sensor with integrated backflow prevention

SBY32BF0BPKG/US

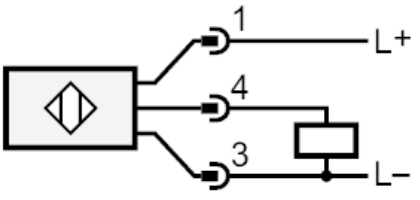
Displays / operating elements		
Display	switching status	4 x LED, yellow
Accessories		
Items supplied	Allen key	
Remarks		
Remarks	Caution Do not turn the cap beyond the maximum value of the setting range.	
	All data refer to water (20 °C).	
Notes	Please note the changed housing design!	
Pack quantity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

Electrical connection

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



Connection



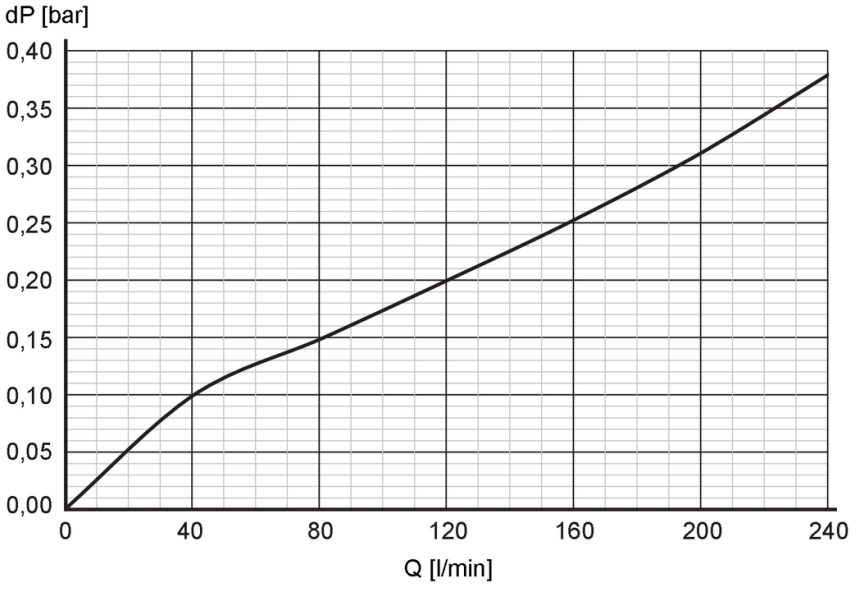
SBY357

Flow sensor with integrated backflow prevention

SBY32BF0BPKG/US

Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity