

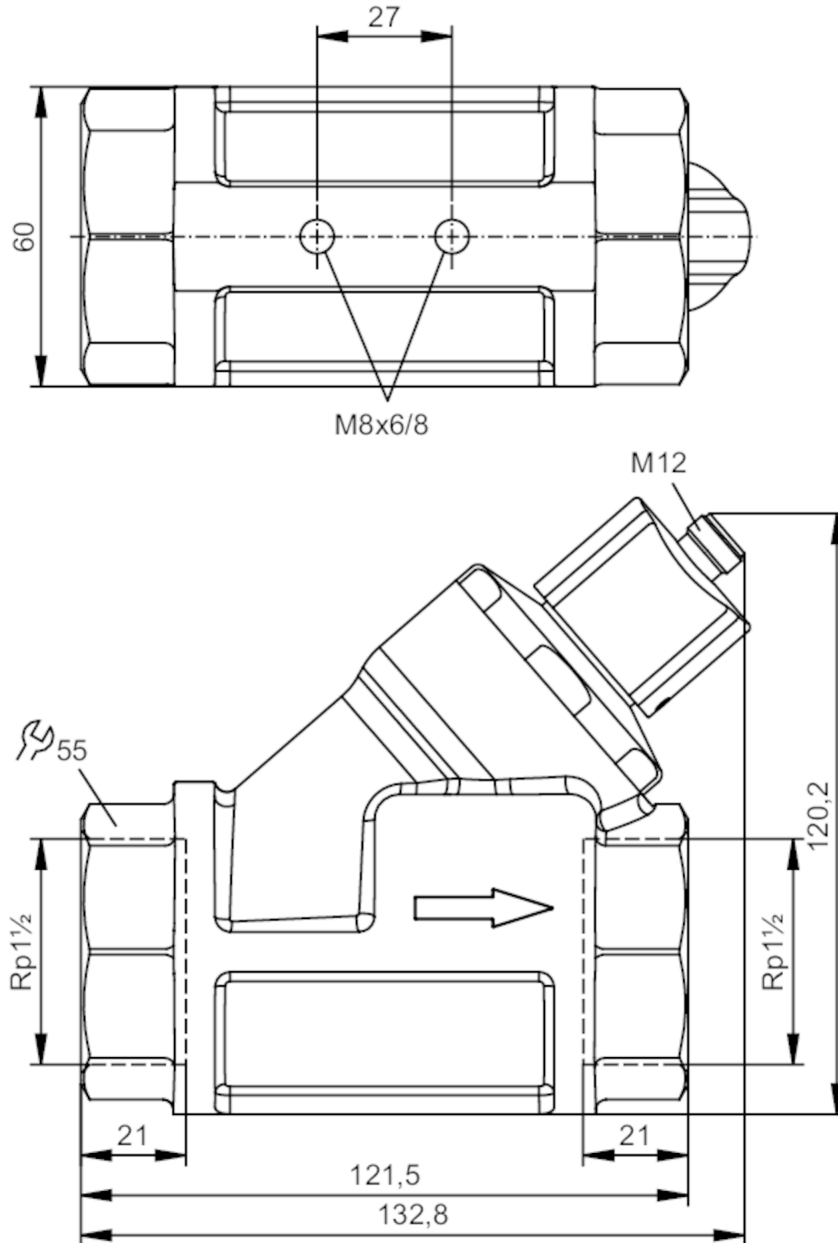
# SBY457



## Flow transmitters with fast response time

SBY32HF010KG/US

Please note the changed housing design!



### Product characteristics

Measuring range	[l/min]	8...200
Process connection		Rp 1 1/2

### Application

Media		Liquids; water; glycol solutions; Coolants
Medium temperature	[°C]	-10...100
Pressure rating	[bar]	25
Pressure rating	[MPa]	2.5

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Electrical data	
Operating voltage [V]	18...32 DC; (to SELV/PELV)
Current consumption [mA]	< 35
Protection class	III
Reverse polarity protection	yes
Outputs	
Output signal	analog signal
Analog current output [mA]	4...20
Max. load [ $\Omega$ ]	500
Short-circuit protection	yes
Overload protection	yes
Measuring/setting range	
Measuring range [l/min]	8...200
Accuracy / deviations	
Repeatability [% of the final value]	1
Measuring error [% of the final value]	$\pm 5$
Reaction times	
Response time [s]	< 0.01
Operating conditions	
Ambient temperature [ $^{\circ}\text{C}$ ]	0...60
Storage temperature [ $^{\circ}\text{C}$ ]	-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]	778
Mechanical data	
Weight [g]	2221.05
Material	brass chemically nickel-plated; PP; stainless steel (1.4404 / 316L); aluminum anodized; PA
Materials (wetted parts)	stainless steel (1.4401 / 316); brass; brass chemically nickel-plated; PP; PPS; spacer: POM; O-ring: FKM
Process connection	Rp 1 1/2
Switching cycles mechanical	10 million
Remarks	
Remarks	Recommendation Use 200 micron filtration All data refer to water (20 $^{\circ}\text{C}$ ).
Notes	Please note the changed housing design!
Pack quantity	1 pcs.

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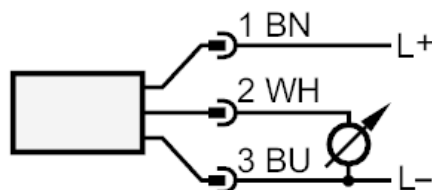
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### Electrical connection

Connector: 1 x M12; coding: A



### Connection



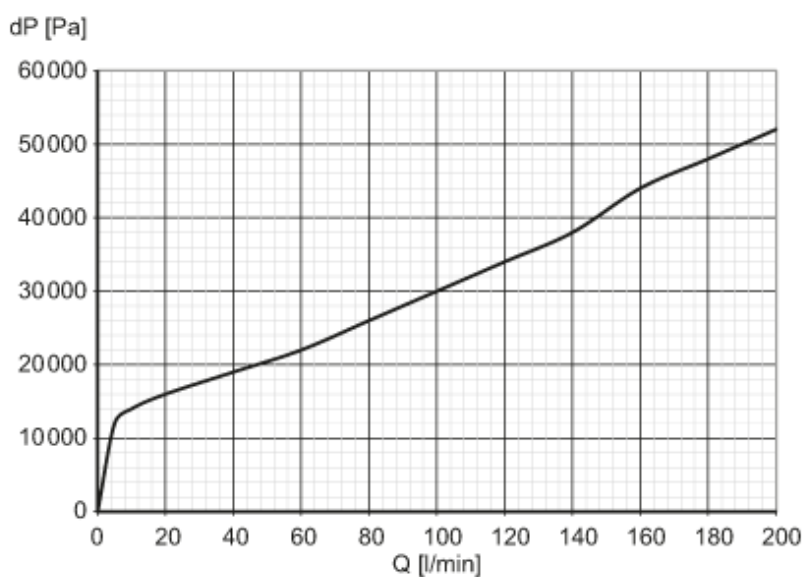
Colors to DIN EN 60947-5-2

Core colors :

BN = brown  
BU = blue  
WH = white

### Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity