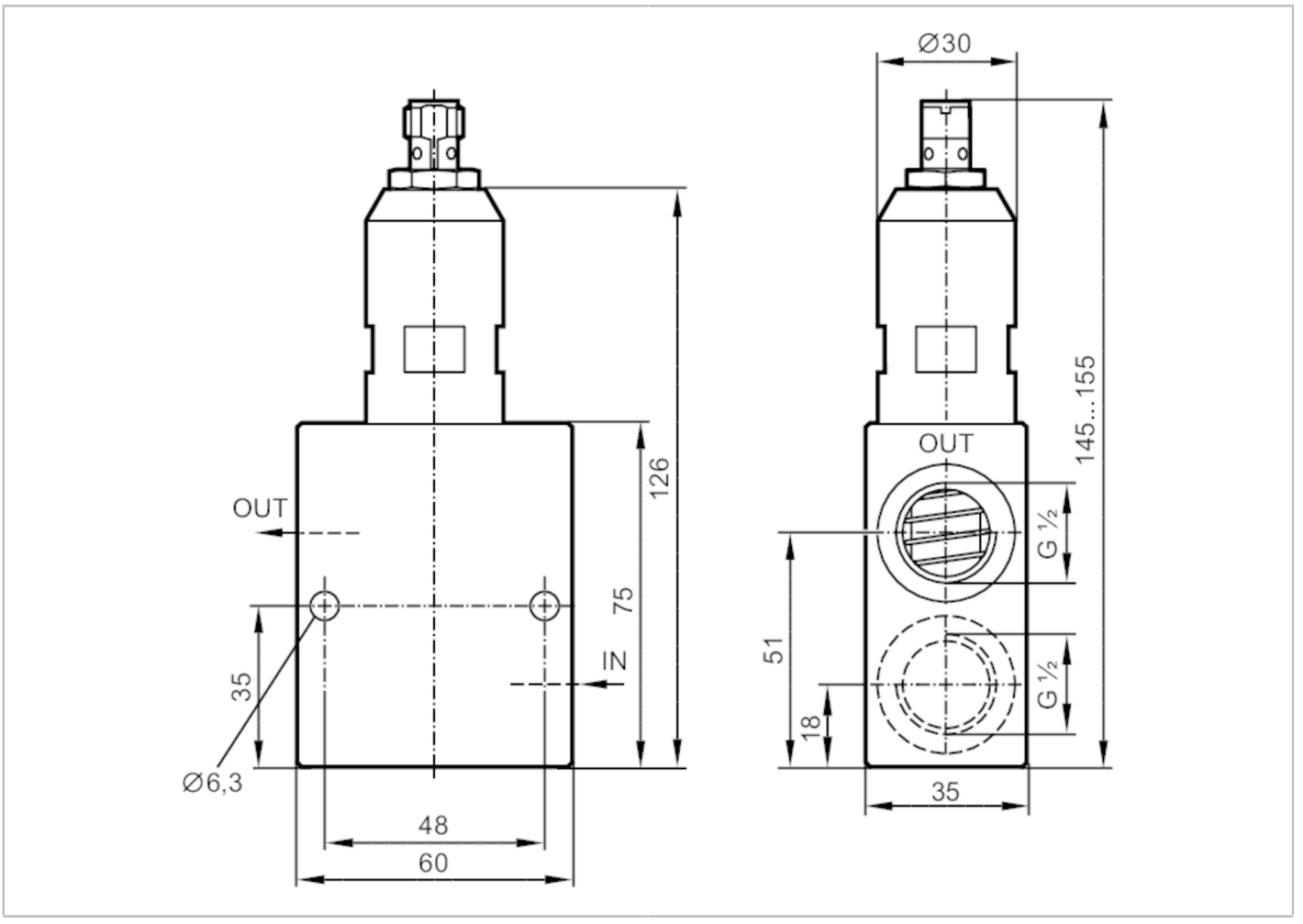
SB0506

Flow sensor with integrated backflow prevention

SBU12DF0BPKG/US



CE

Product characteristics		
Number of inputs and outputs		Number of digital outputs: 1
Process connection		G 1/2
Application		
Application		laser cooling
Media		water
Medium temperature	[°C]	0...60
Pressure rating	[bar]	20
Pressure rating	[MPa]	2
Electrical data		
Operating voltage	[V]	10...30 DC; (to SELV/PELV)
Current consumption	[mA]	< 15
Protection class		III
Reverse polarity protection		yes
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 1

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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		
Flow range	[l/min]	50
Setting range	[l/min]	1...12
Set point SP	[l/min]	2.5
Note on switch point		± 0,25, fixed
Accuracy / deviations		
Repeatability [% of the final value]		1
Pressure loss		1 l/min = 0.01 bar; 6 l/min = 0.1 bar; 12 l/min = 0.2 bar; 30 l/min = 0.5 bar; 50 l/min = 1 bar
Hysteresis	[l/min]	0,1...0,2
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)
Mechanical data		
Weight	[g]	287.5
Materials		PP; PA; PE
Materials (wetted parts)		stainless steel (316 / 1.4401); stainless steel (1.4301 / 304); PP; PE; PPS; O-ring: FKM
Process connection		G 1/2
Switching cycles mechanical		10 million
Installation position		upright

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Displays / operating elements		
Display	switching status	4 x LED, yellow

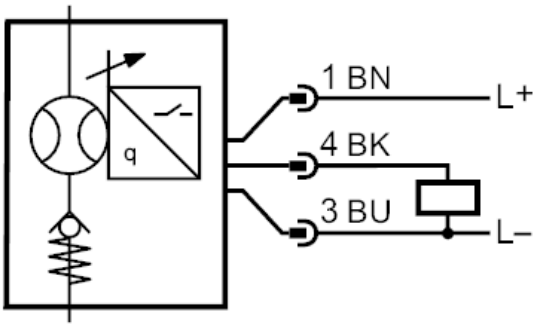
Remarks	
Remarks	Recommendation Use 200 micron filtration
	All data refer to water (20 °C).
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



colours to DIN EN 60947-5-2
Core colours :

BK = black
BN = brown
BU = blue

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Diagrams and graphs

