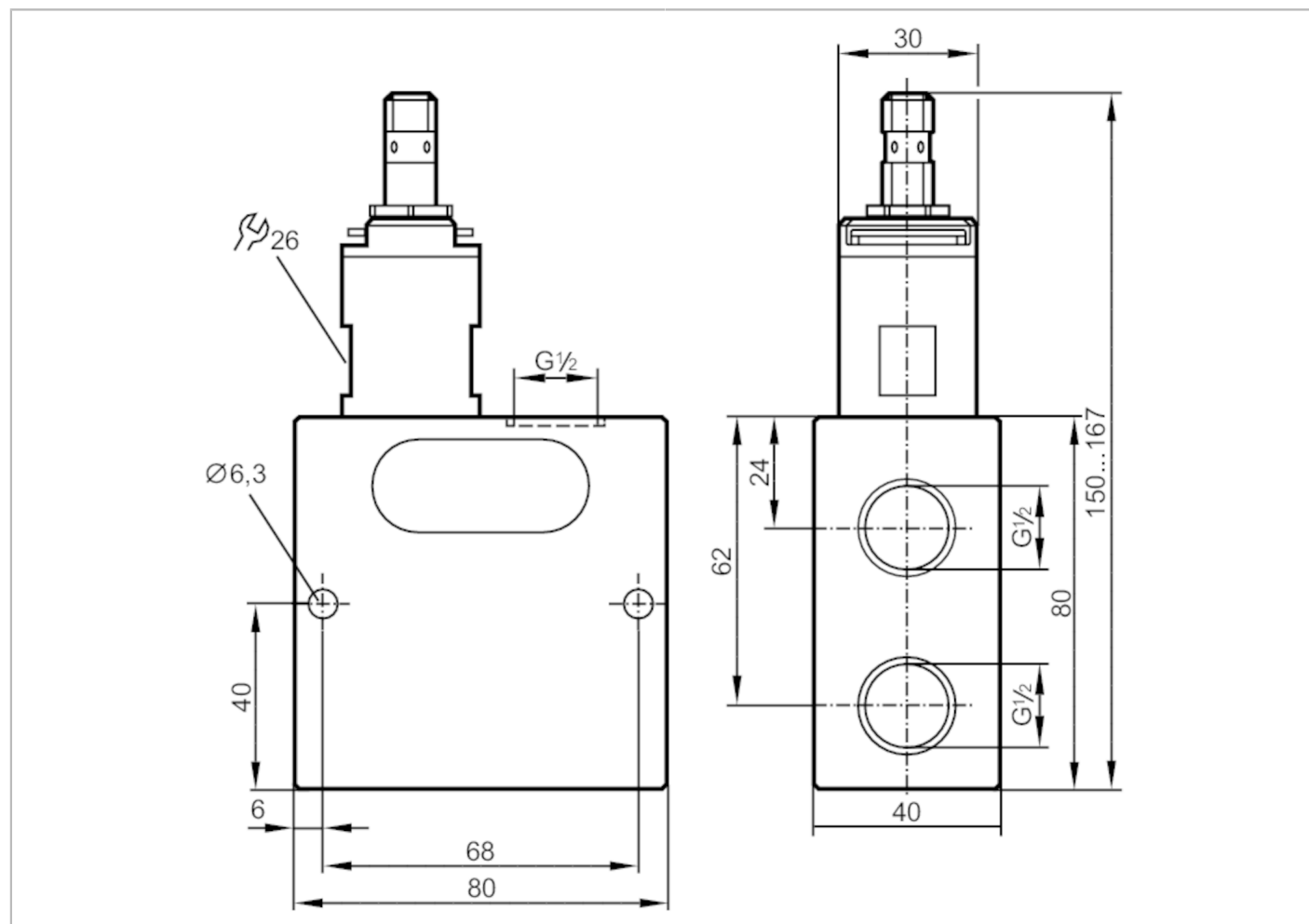




Flow sensor with integrated backflow prevention

SBU12DI0BPKG/US



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1
Process connection	threaded connection G 1/2 internal thread

Application

Application	machine tools; Internal cooling of drill
Media	Liquids; water; glycol solutions; coolants
Medium temperature [°C]	0...60
Pressure rating	200 bar 20 MPa

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
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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]	75	
Setting range [l/min]	0.3...50	
Accuracy / deviations		
Repeatability [% of the final value]	1	
Hysteresis [l/min]	0,1...1,5	
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]	15.78	
Mechanical data		
Weight [g]	764	
Housing	rectangular	
Dimensions [mm]	167 x 80 x 40	
Materials	aluminium anodised; PA	
Materials (wetted parts)	stainless steel (301/1.4310); stainless steel (304/1.4301); aluminium anodised; PBT; PU; O-ring: FKM	
Process connection	threaded connection G 1/2 internal thread	
Switching cycles mechanical	10 million	
Displays / operating elements		
Display	switching status	4 x LED, yellow
Accessories		
Items supplied	sealing plugs	



Flow sensor with integrated backflow prevention

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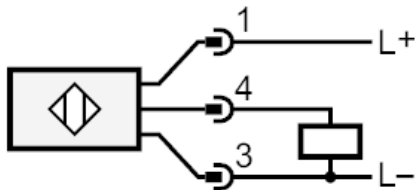
Remarks	
Remarks	Temperature changes slightly affect the specified standard settings for coolants.
	For oils, the settings are influenced by temperature and viscosity.
	Recommendation Use 200 micron filtration
	All data refer to coolants (20 °C).
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



Diagrams and graphs

