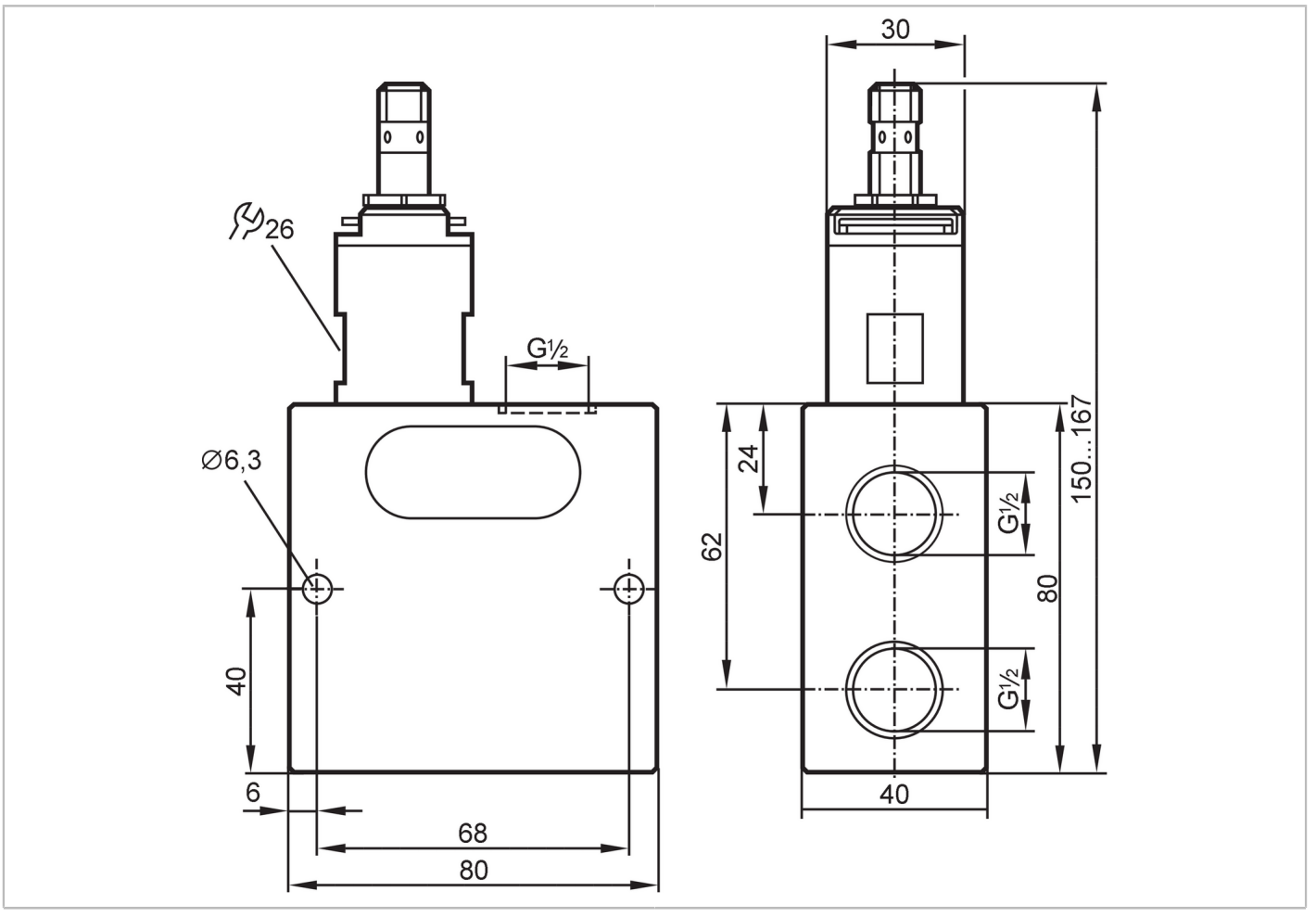
SBU324

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	
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]		3387
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

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Remarks

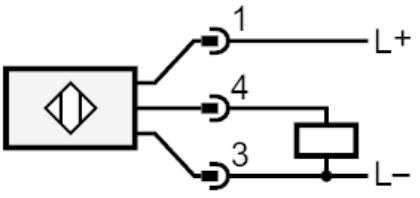
Remarks	Temperature changes slightly affect the specified standard settings for coolants.
	For oils, the settings are influenced by temperature and viscosity.
	Recommendation Use 200 micron filtration
	All data refer to coolants (20 °C).
Pack quantity	1 pcs.

Electrical connection

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



Connection



Diagrams and graphs

