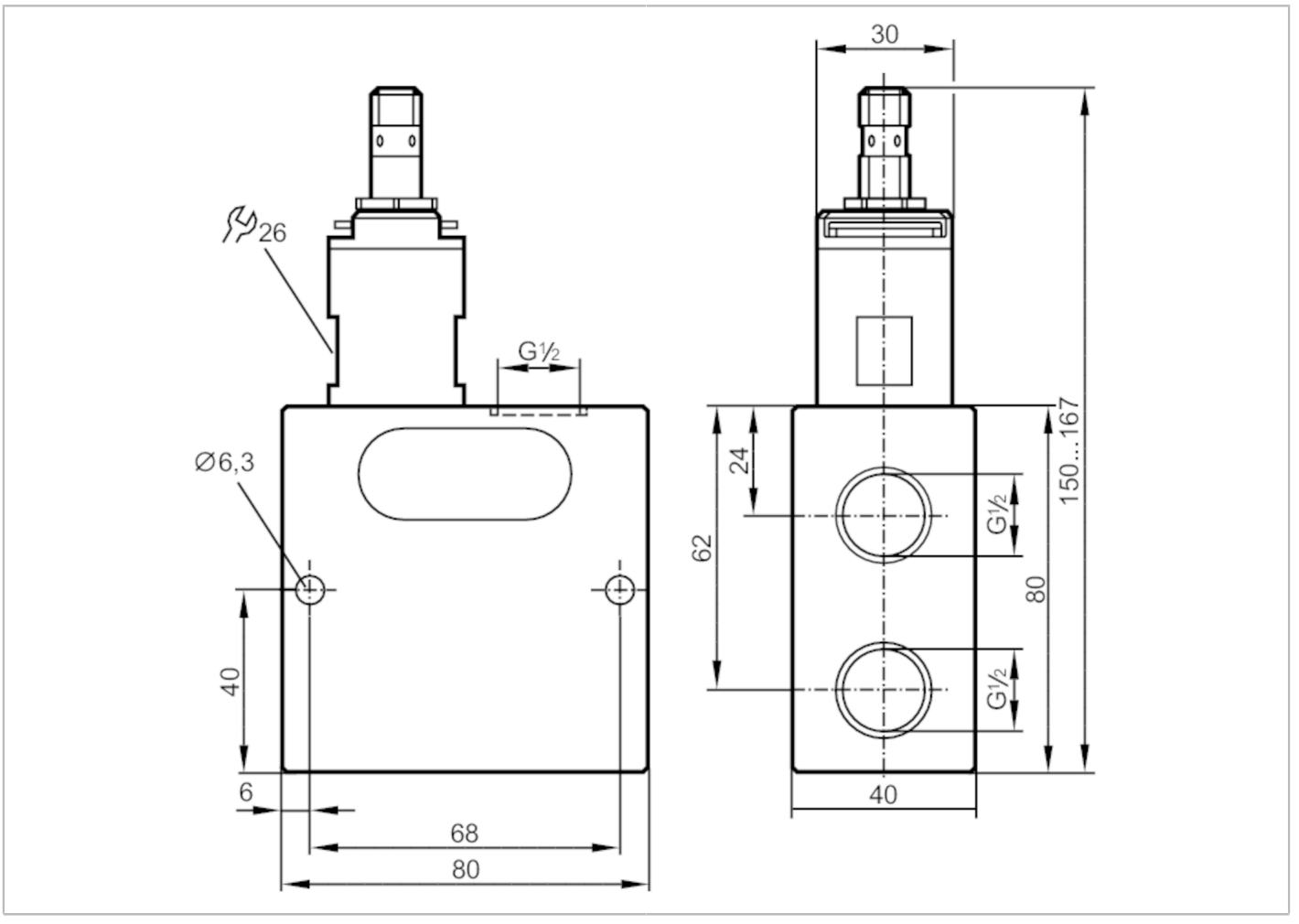
SBU324

Flow sensor with fast response time

SBU12DI0BPKG/US



Product characteristics		
Number of inputs and outputs		Number of digital outputs: 1
Process connection		G 1/2
Application		
Application		Machine tools; Internal cooling of drill
Media		Liquids; water; glycol solutions; Coolants
Medium temperature	[°C]	0...60
Pressure rating	[bar]	200
Pressure rating	[MPa]	20
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]	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	
Reaction 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	
Material		aluminum anodized; PA	
Materials (wetted parts)		stainless steel (1.4310 / 301); stainless steel (1.4301 / 304); aluminum anodized; PBT; PU; O-ring: FKM	
Process connection		G 1/2	
Switching cycles mechanical		10 million	
Displays / operating elements			
Display		Switching status	4 x LED, yellow
Accessories			
Items supplied		sealing plug	

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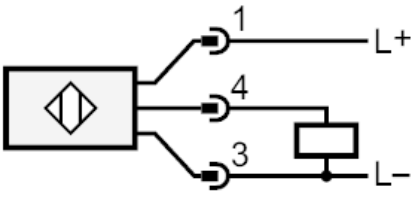
Remarks

Remarks	Temperature changes 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