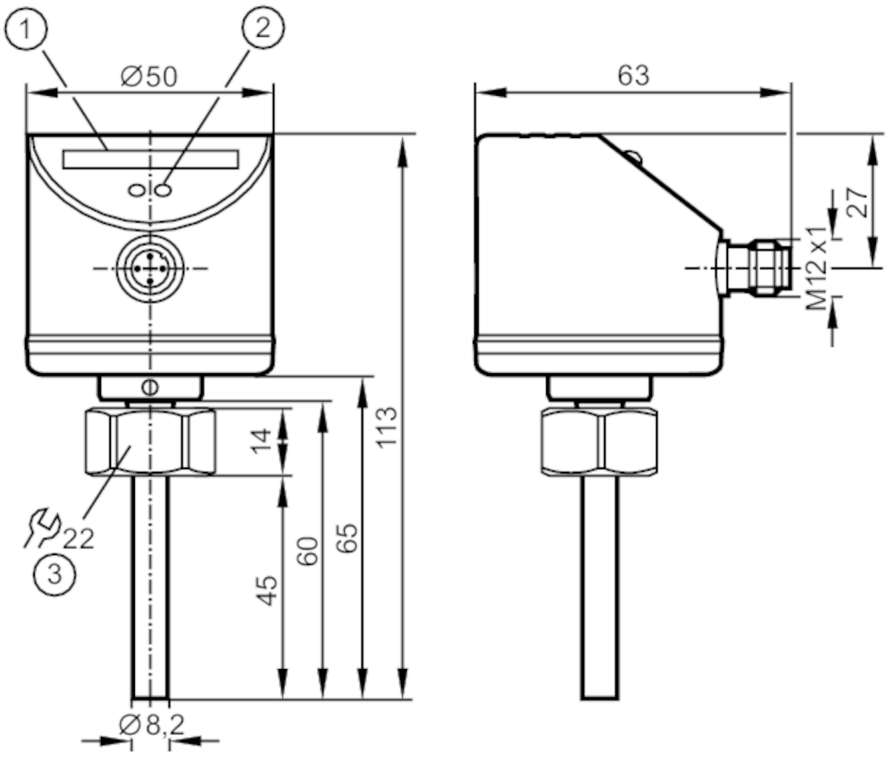
SI0521

Flow monitor

SID10ADBFPKG/US-100



1 LED bar display
2 setting pushbutton
3 Tightening torque 25 Nm

Product characteristics		
Number of inputs and outputs		Number of digital outputs: 2
Process connection		M18 x 1,5 internal thread
Application		
Media		Liquids
Medium temperature	[°C]	-15...70
Pressure rating	[bar]	300
Electrical data		
Operating voltage	[V]	24 DC; (18...32 DC)
Current consumption	[mA]	< 60
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	10
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 2
Outputs		
Total number of outputs		2
Output signal		switching signal
Electrical design		PNP

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Number of digital outputs		2	
Output function		normally open / normally closed; (parameterisable)	
Max. voltage drop switching output DC	[V]	2.5	
Permanent current rating of switching output DC	[mA]	250	
Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Measuring/setting range			
Probe length L	[mm]	45	
Setting range	[cm/s]	3...300	
Greatest sensitivity	[cm/s]	3...100	
Accuracy / deviations			
Repeatability	[% of Sr]	1...5	
Note on repeatability		for water 5...100 cm/s; 25 °C	
		Factory setting	
Temperature drift	[cm/s x 1/K]	0.1; (for water 5...100 cm/s; 15...70 °C)	
Temperature gradient	[K/min]	300	
Switch point accuracy	[cm/s]	± 10; (for water 5...100 cm/s; 25 °C; Factory setting)	
Hysteresis	[cm/s]	2...5; (for water 5...100 cm/s; 25 °C; Factory setting)	
Response times			
Response time	[s]	1...10	
Software / programming			
Adjustment of the switch point		pushbutton	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Storage temperature	[°C]	-25...100	
Protection		IP 67	
Tests / approvals			
EMC		DIN EN 61000-4-2 ESD	6 kV CD / 8 kV AD
		DIN EN 61000-4-3 HF radiated	10 V/m
		DIN EN 61000-4-4 Burst	2 kV
		DIN EN 61000-4-5 Surge	0,5 kV / 1 kV
		DIN EN 61000-4-6 HF conducted	10 V
Shock resistance		DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance		DIN EN 60068-2-6	1.6 mm (2...25 Hz) / 20 g (25...2000 Hz)
MTTF	[years]	267	
Mechanical data			
Weight	[g]	246.5	
Dimensions	[mm]	M18 x 1.5	
Thread designation		M18 x 1.5	
Materials		stainless steel (316L/1.4404); stainless steel (301/1.4310); PC; PBT-GF20; EPDM/X	

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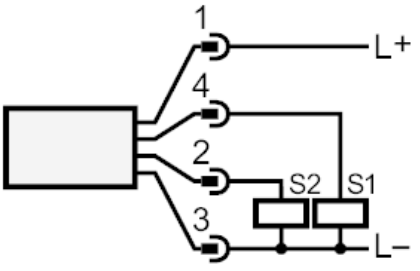
Materials (wetted parts)	stainless steel (316L/1.4404); O-ring: FKM 80 Shore A	
Process connection	M18 x 1,5 internal thread	
Displays / operating elements		
Display	function	10 x LED, three-colour
Remarks		
Pack quantity	1 pcs.	
Electrical connection		

Connector: 1 x M12; coding: A

Connection