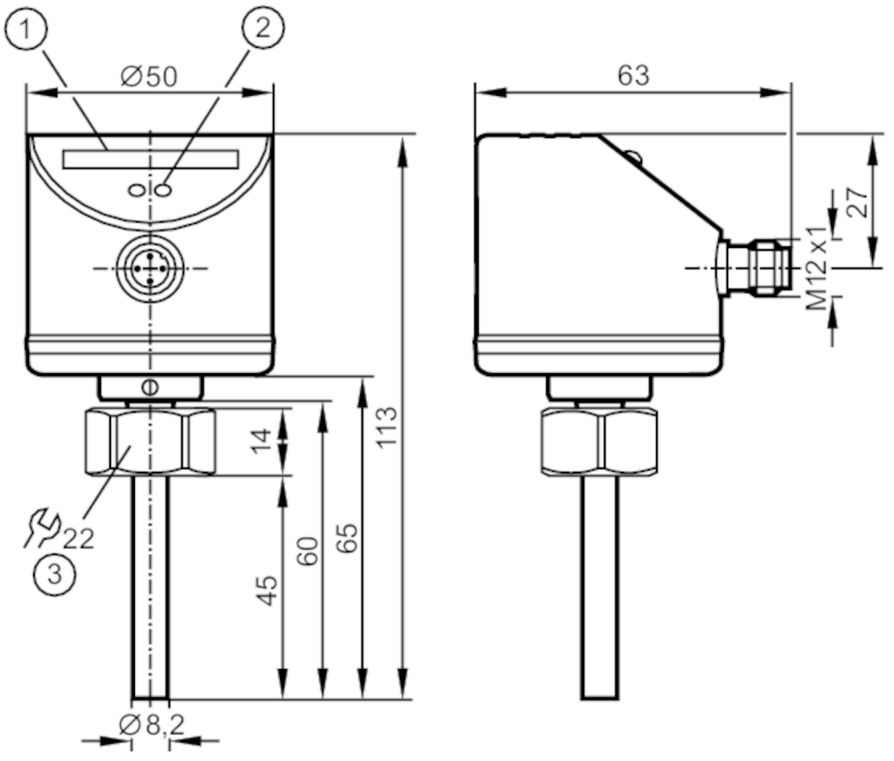
SI0550

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: 1
Process connection		M18 x 1,5 internal thread
Application		
Application		coolants; oils in machine tools
Medium temperature	[°C]	-25...80
Pressure rating	[bar]	300
Liquids		
Application		coolants; oils in machine tools
Medium temperature	[°C]	-25...80
Electrical data		
Operating voltage	[V]	19...36 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: 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 / 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	
Liquids			
Setting range	[cm/s]	3...300	
Greatest sensitivity	[cm/s]	3...100	
Accuracy / deviations			
Repeatability	[cm/s]	1...5	
Temperature drift	[cm/s x 1/K]	0.1	
Switch point accuracy	[cm/s]	± 2...± 10	
Hysteresis	[cm/s]	2...5	
Response times			
Response time	[s]	< 1	
Liquids			
Response time	[s]	< 1	
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		EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	10 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	10 V
Shock resistance		DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance		DIN EN 60068-2-6	20 g (55...2000 Hz)
MTTF	[years]	298	
Mechanical data			
Weight	[g]	245.3	

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Dimensions	[mm]		M18 x 1.5
Thread designation			M18 x 1.5
Materials			stainless steel (316L/1.4404); stainless steel (1.4310 / 301); PC; PBT-GF20; EPDM/X
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

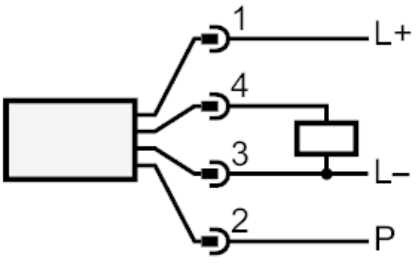
Remarks

Remarks	The installation remarks in the operating instructions must be adhered to in order to ensure a reliable function.
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A

Connection



P = programming wire for remote calibration