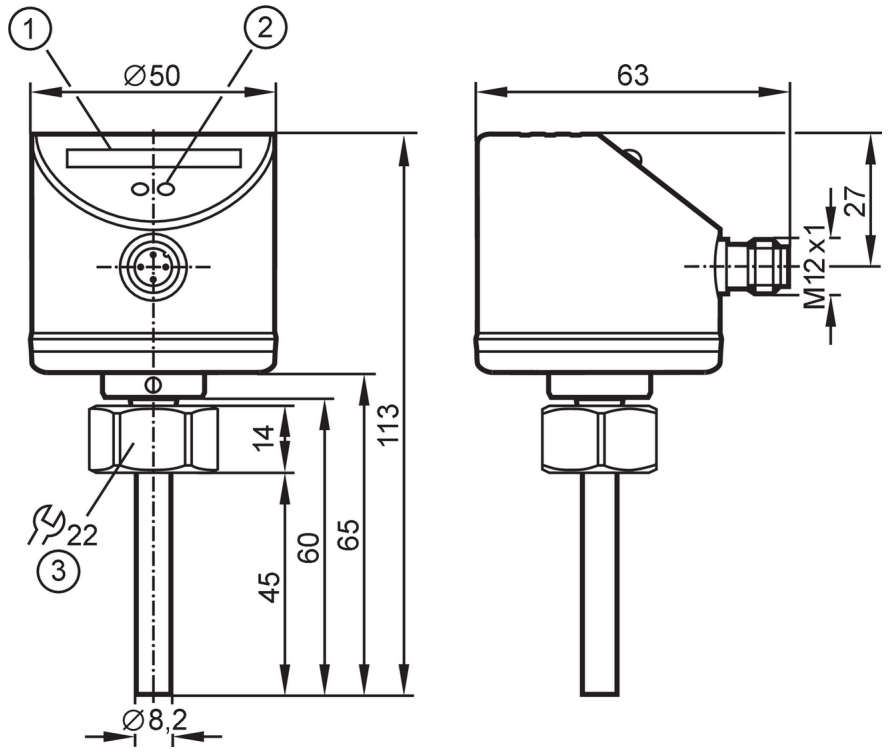
SI5007

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		threaded connection M18 x 1,5 internal thread	
Application			
Media		Liquids; Gases	
Medium temperature	[°C]	-25...80	
Pressure rating		300 bar	30 MPa
Liquids			
Medium temperature	[°C]	-25...80	
Gases			
Medium temperature	[°C]	-25...80	
Electrical data			
Operating voltage	[V]	18...36 DC	
Current consumption	[mA]	< 60	
Min. insulation resistance	[MΩ]	100; (500 V DC)	
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	

SI5007

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Outputs		
Total number of outputs		2
Output signal		switching signal; IO-Link; (configurable)
Electrical design		PNP
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
Liquids		
Setting range	[cm/s]	3...300
Greatest sensitivity	[cm/s]	3...100
Gases		
Setting range	[cm/s]	200...3000
Greatest sensitivity	[cm/s]	200...800
Temperature monitoring		
Measuring range	[°C]	2...80
Resolution	[°C]	1
Accuracy / deviations		
Repeatability	[cm/s]	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; 10...70 °C)
Temperature gradient	[K/min]	300
Switch point accuracy	[cm/s]	± 2...± 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)
Temperature monitoring		
Switch point accuracy	[K]	± 3 (v > 5cm/s); (Liquids)
Resolution	[K]	1
Hysteresis	[K]	2
Repeatability	[K]	2
Response times		
Response time	[s]	1...10
Liquids		
Response time	[s]	1...10
Gases		
Response time	[s]	1...10

SI5007

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Temperature monitoring			
Response time	[s]	1...10	
Software / programming			
Adjustment of the switch point		pushbutton	
Interfaces			
Communication interface		IO-Link	
Transmission type		COM2 (38,4 kBaud)	
IO-Link revision		1.1	
SDCI standard		IEC 61131-9	
Profiles		Smart Sensor - SSP 0	Generic Profiled Sensor
		Function	Device identification
		Function	Process data variable
SIO mode		yes	
Required master port type		A	
Process data analogue		2	
Process data binary		2	
Min. process cycle time	[ms]	3	
Supported DeviceIDs		**Type of operation**	**DeviceID**
		default	53
Operating conditions			
Ambient temperature	[°C]	-25...80	
Storage temperature	[°C]	-25...100	
Protection		IP 65; IP 67	
Tests / approvals			
EMC		DIN EN 60947-5-9	
Shock resistance		DIN IEC 60068-2-27	50 g (11 ms)
Vibration resistance		DIN EN 60068-2-6	20 g (55...2000 Hz)
MTTF	[years]	277	
Mechanical data			
Weight	[g]	231.5	
Housing		cylindrical	
Dimensions	[mm]	Ø 50 / L = 113	
Materials		stainless steel (316L/1.4404); stainless steel (301/1.4310); PC; PBT-GF20; EPDM/X	
Materials (wetted parts)		stainless steel (316L/1.4404); O-ring: FKM 80 Shore A	
Process connection		threaded connection M18 x 1,5 internal thread	
Probe diameter	[mm]	8.2	
Installation length EL	[mm]	45	
Displays / operating elements			
Display		function	10 x LED, three-colour
Remarks			
Pack quantity		1 pcs.	

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Flow monitor

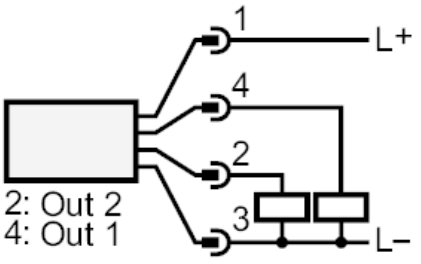
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Electrical connection

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



Connection



Pin 2: OUT 2 =	Temperature monitoring
Pin 4: OUT 1 =	Flow monitoring
Pin 4:	IO-Link