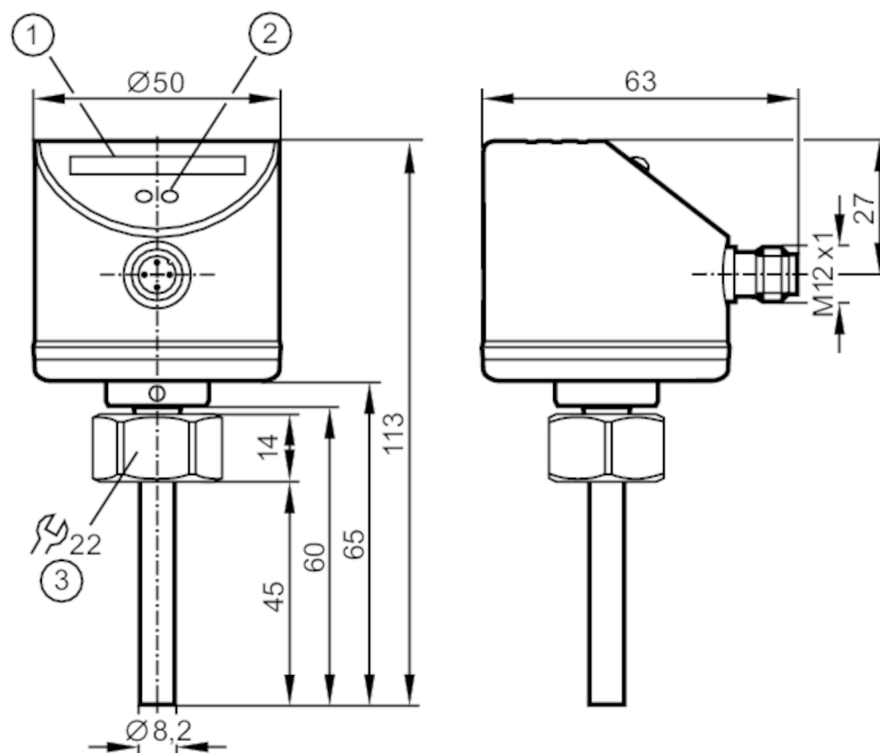


SI0556



Flow monitor

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



Application

Media		Liquids; Gases
Medium temperature	[°C]	-25...80
Pressure rating	[bar]	300

Liquids

Medium temperature	[°C]	-25...80
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Gases

Medium temperature	[°C]	-25...80
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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: 2
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Flow monitor

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Outputs		
Total number of outputs		2
Output signal		switching signal
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
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
Repeatability	[K]	2
Response times		
Response time	[s]	1...10
Liquids		
Response time	[s]	1...10
Gases		
Response time	[s]	1...10
Temperature monitoring		
Response time	[s]	1...10



Flow monitor

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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]	277
Mechanical data		
Weight	[g]	235
Dimensions	[mm]	M18 x 1.5
Thread designation	M18 x 1.5	
Materials	stainless steel (1.4404 / 316L); stainless steel (1.4310 / 301); PC; PBT-GF20; EPDM/X	
Materials (wetted parts)	stainless steel (1.4404 / 316L); 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		
		

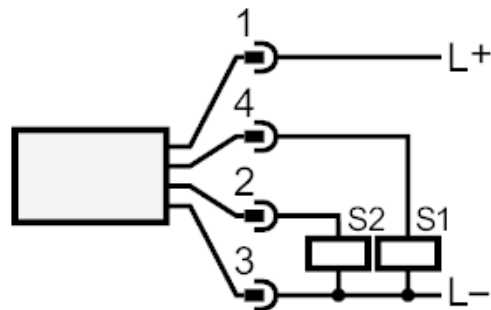
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Flow monitor

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Connection



S1: Flow monitoring Temperature monitoring

S2: Temperature monitoring