

SI5100



Flow monitor

SID10ADTFPKG/US-100



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



Application		
Media		Liquids; Gases; aggressive media
Medium temperature	[°C]	-25...80
Pressure rating	[bar]	100
Liquids		
Medium temperature	[°C]	-25...80
Gases		
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



Flow monitor

SID10ADTFPKG/US-100

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
Gases		
Setting range [cm/s]		200...3000
Greatest sensitivity [cm/s]		200...800
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)
Response times		
Liquids		
Response time [s]		1...2; (for a temperature gradient: 1 K/min)
Gases		
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



Flow monitor

SID10ADTFPKG/US-100

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]	238	
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)	titanium (3.7035); 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		
Notes	Observe the changed pressure rating.	
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12



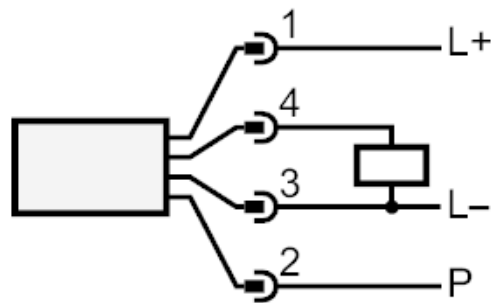
SI5100



Flow monitor

SID10ADTFPKG/US-100

Connection



P = programming wire for remote calibration