

SI5010



Flow monitor

SID10ADBFPKG/US-100



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



Product characteristics		
Number of inputs and outputs	Number of digital outputs: 1	
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
MAWP (for applications according to CRN) [bar]	208	
Liquids		
Medium temperature [°C]	-25...80	
Gases		
Medium temperature [°C]	-25...80	
Electrical data		
Operating voltage [V]	18...36 DC	
Current consumption [mA]	< 60	
Protection class	III	
Reverse polarity protection	yes	
Power-on delay time [s]	10	



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Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 1
Outputs		
Total number of outputs		1
Output signal		switching signal; IO-Link; (configurable)
Electrical design		PNP
Number of digital outputs		1
Output function		normally open / closed; (configurable)
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		yes (non-latching)
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
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)
Max. temperature gradient of medium	[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)
Reaction times		
Liquids		
Response time	[s]	1...10
Gases		
Response time	[s]	1...10
Software / programming		
Adjustment of the switch point		pushbuttons
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)

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IO-Link revision	1.1				
SDCI standard	IEC 61131-9				
Profiles	Smart Sensor: Process Data Variable; Device Identification				
SIO mode	yes				
Required master port class	A				
Process data analog	2				
Process data binary	2				
Min. process cycle time [ms]	3				
Supported DeviceIDs	<table><tr><th>Type of operation</th><th>DeviceID</th></tr><tr><td>default</td><td>54</td></tr></table>	Type of operation	DeviceID	default	54
Type of operation	DeviceID				
default	54				

Operating conditions

Ambient temperature [°C]	-25...80
Storage temperature [°C]	-25...100
Protection	IP 65; IP 67

Tests / approvals

EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
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]	298	

Mechanical data

Weight [g]	248.5
Housing	tubular
Dimensions [mm]	Ø 50 / L = 113
Material	stainless steel (1.4404 / 316L); stainless steel (1.4301 / 304); PC; PBT-GF20; EPDM/X
Materials (wetted parts)	stainless steel (1.4404 / 316L); 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-color
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Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



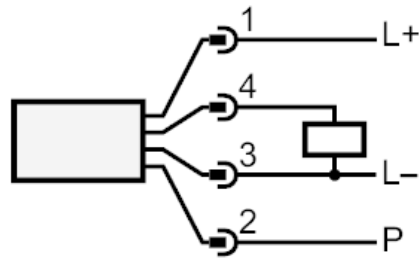
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Connection



P = programming wire for remote calibration
Pin 4: IO-Link