

# 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 [bar]	300
MAWP (for applications according to CRN) [bar]	208

### 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]	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 border="1"><thead><tr><th>Type of operation</th><th>DeviceID</th></tr></thead><tbody><tr><td>default</td><td>54</td></tr></tbody></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

Remarks	
Pack quantity	1 pcs.

## Electrical connection

Connector: 1 x M12; coding: A



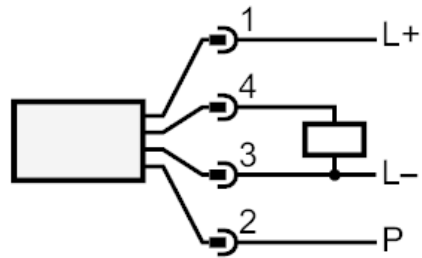
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### Connection



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