

SI0521



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: 2	
Process connection	threaded connection M18 x 1,5 Internal thread	
Application		
Media	Liquids	
Medium temperature [°C]	-15...70	
Pressure rating	300 bar	30 MPa
Electrical data		
Operating voltage [V]	24 DC; (18...32 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	
Outputs		
Total number of outputs	2	
Output signal	switching signal	
Electrical design	PNP	



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Number of digital outputs	2
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
Setting range [cm/s]	3...300
Greatest sensitivity [cm/s]	3...100

Accuracy / deviations

Repeatability [% of Sr]	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; 15...70 °C)
Max. temperature gradient of medium [K/min]	300
Switch point accuracy [cm/s]	± 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

Response time [s]	1...10
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Software / programming

Adjustment of the switch point	pushbuttons
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Operating conditions

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

Tests / approvals

EMC	DIN EN 61000-4-2 ESD	6 kV CD / 8 kV AD
	DIN EN 61000-4-3 HF radiated	10 V/m
	DIN EN 61000-4-4 Burst	2 kV
	DIN EN 61000-4-5 Surge	0,5 kV / 1 kV
	DIN EN 61000-4-6 HF conducted	10 V
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	1.6 mm (2...25 Hz) / 20 g (25...2000 Hz)
MTTF [years]		267

Mechanical data

Weight [g]	246.5
Housing	tubular
Dimensions [mm]	Ø 50 / L = 113
Material	stainless steel (1.4404 / 316L); stainless steel (1.4310 / 301); PC; PBT-GF20; EPDM/X

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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

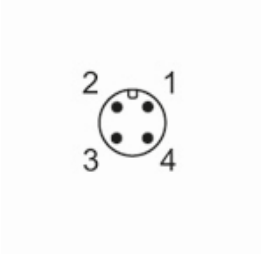
Display	Function	10 x LED, three-color
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Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection

