

Product characteristics

Flow monitor

Compact type for adapter

Process connection: internal thread M18 x 1.5 for adapter

Probe length: 45 mm

SI5010

with adapter 1/2-14NPT

(E40107)

Setting range: 3...300 cm/s (liquids)

Application

Application

liquids and gases

Medium temperature

[°C]

-25...80

Electrical data

Electrical design

DC PNP

Operating voltage

[V]

19...36 DC 1)

Current consumption

[mA]

< 60

Protection class

III

Reverse polarity protection

yes

Outputs

Output function

normally open / closed programmable

Current rating

[mA]

250

Voltage drop

[V]

< 2.5

Short-circuit protection

yes (non-latching)

Overload protection

yes

Measuring / setting range

Liquids

Setting range

[cm/s]

3...300

Greatest sensitivity

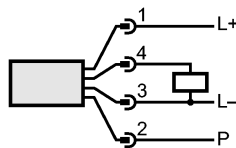
[cm/s]

3...100

SI8503 - Flow monitor - eclass: 27273101 / 27-27-31-01

Gases		
Setting range	[cm/s]	200...3000
Greatest sensitivity	[cm/s]	200...800
Accuracy / deviations		
Switch point accuracy	[cm/s]	$\pm 2... \pm 10$ *)
Hysteresis	[cm/s]	2...5 *)
Repeatability	[cm/s]	1...5 *)
Temperature drift	[cm/s x 1/K]	0.1 **)
Max. temperature gradient of medium	[K/min]	300
Reaction times		
Power-on delay time	[s]	10
Response time	[s]	1...2 ***) / 1...10 ****)
Software / programming		
Adjustment of the switch point		pushbuttons
Environment		
Ambient temperature	[°C]	-25...80
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)
Mechanical data		
Process connection		internal thread M18 x 1.5 for adapter
Materials (wetted parts)		stainless steel 316L / 1.4404; O-ring: FKM 8 x 1.5 gr 80° Shore A
Housing materials		stainless steel (304S15); PC (Makrolon); PBT-GF 20; EPDM/X (Santoprene)
Probe length L	[mm]	45
Displays / operating elements		
Function display	LED	10 LEDs, three-colour
Electrical connection		
Connection		M12 connector

Wiring



P = programming wire (for remote adjustment)

Remarks	
Remarks	<p>*) for water; 5...100 cm/s; 25°C (factory setting) **) for water; 5...100 cm/s; 10...70°C ***) for liquids and temperature gradient 1 K/min ****) for gases</p>
Pack quantity	[piece] 1