

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 G $\frac{1}{4}$ BSPP

(E40099)

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

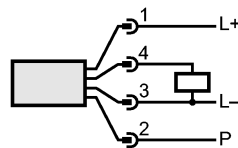
[cm/s]

3...100

SI8502 - 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	*) 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
Pack quantity	