

1: LED display
 2: setting pushbutton



Product characteristics

Flow monitor

Compact type for adapter

Process connection: internal thread M18 x 1.5 for adapter

Probe length: 45 mm

SI5006

with adapter 1/2-14NPT

(U40008)

1 relay output

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

Application

Application

liquids and gases

Pressure rating [bar]

300

Medium temperature [°C]

-25...80

Electrical data

Electrical design

AC / relay

Operating voltage [V]

85...265 AC

Nominal voltage [V]

90...240 AC (45...65 Hz)

Voltage tolerance [%]

-5 / +10

Power consumption [VA]

< 3.5

Protection class

II

Reverse polarity protection

no

Outputs

Output function

normally open / closed programmable

Contact rating

3 A (250 V AC / 30 V DC) ¹⁾

Short-circuit proof

no

Overload protection

no

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Measuring / setting range

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

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
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Reaction times

Power-on delay time	[s]	10
Response time	[s]	1...10

Software / programming

Adjustment of the switch point		pushbuttons
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Environment

Ambient temperature	[°C]	-25...80
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Protection		IP 67
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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)
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Vibration resistance	DIN EN 60068-2-6	20 g (55...2000 Hz)
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Mechanical data

Process connection		internal thread M18 x 1.5 for adapter
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Materials (wetted parts)		stainless steel 316L / 1.4404; O-ring: FKM 8 x 1.5 gr 80° Shore A
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Housing materials		stainless steel (304S15); PC (Makrolon); PBT-GF 20; EPDM/X (Santoprene)
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Probe length L	[mm]	45
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Displays / operating elements

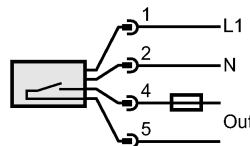
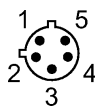
Function display	LED	10 LEDs, three-colour
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Electrical connection

Connection		1/2" UNF-Connector
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Wiring

N.B: no protective insulation between relay circuit and supply voltage



Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting)

Remarks

Remarks	<p>n.c. = not connected ¹⁾ number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work *) for water; 5...100 cm/s; 25°C (factory setting) **) for water; 5...100 cm/s; 10...70°C Recommendation: check the unit for reliable function after a short circuit.</p>
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Pack quantity	[piece]	1
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