



Flow Switch SI5000

URL:<https://www.sxplc.com/flow-switch-si5000>

Product data sheet

Product Characteristics

Total number of inputs and outputs

Number of digital outputs: 1

System interface

M18 x 1,5 female thread

Application

Mediums

Liquids; Gases

Temperature [°C]

-25.... .80

Compressive strength [bar]

30

Liquid

Medium temperature [°C]

-25.... .80

Gaseous media

Temperature [°C]

-25.... .80

Electrical data

Operating voltage [V]

19... .36 DC

Current loss [mA]

< 60

Protection class

III

Inverted phase protection

yes

Power-on delay time [s]

10

Total inputs/outputs

Total number of inputs and outputs

Number of digital outputs: 1

Outputs

Number of outputs

1

Output Signal

Switching signals

Electrical design

PNP

Number of digital outputs

1

Output function

Normally open/closed; (parameterizable)

Switching output DC voltage drop maximum value [V]

2.5

Continuous current load of switching output DC [mA]

250

Short-circuit protection

Yes

Short-circuit protection type

Pulse

Overload protection

Yes

Measuring/setting range

Probe length L [mm]

45

Liquid

Setting range [cm/s]

3.... .300

Measuring range at max. sensitivity [cm/s]

3.... .100

Gaseous media

Setting range [cm/s]

200.... .3000

Measuring range at max. sensitivity [cm/s]

200.... .800

Accuracy/deviation

Repeatability [cm/s]

1.... .5

Note the repeatability

For water 5.... .100 cm/s; 25 °C

Factory setting

Temperature rate of change [cm/s x 1/K]

0.1; (for water 5.... .100 cm/s; 10... .70 °C) .70 °C)

Max. rate of change of temperature of the medium [K/min]

300

Switching point accuracy [cm/s]

± 2... ± 10; (for water 5...100 cm/s; 25 °C; factory setting) .100 cm/s; 25 °C; factory setting)

Hysteresis [cm/s]

2.... .5; (for water 5.... .100 cm/s; 25 °C; factory setting)

Reaction time

Reaction time [s]

1.... .10

Liquid

Reaction time [s]

1.... .10

Gaseous media

Reaction time [s]

1.... .10

Software / Programming

Switch point adjustment

Pushbuttons

Operating conditions

Ambient temperature [°C]

-25.... .80

Storage temperature [°C]

-25.... .100

Enclosure protection class

IP 67

Approvals/Tests

EMC Electromagnetic Compatibility

EN 61000-4-2 ESD

4 kV CD / 8 kV AD

EN 61000-4-3 HF EMF radiation

10 V/m

EN 61000-4-4 Burst

2 kV

EN 61000-4-6 Conducted immunity for RF field induction

10 V

Shock resistance

DIN IEC 68-2-27

50 g (11 ms)

Vibration

DIN EN 60068-2-6

20 g (55..... . 2000 Hz)

MTTF [years]

298

Mechanical and technical data

Weight [g]

246

Dimensions [mm]

M18 x 1.5

Thread designation

M18 x 1.5

Material

Stainless steel (1.4404 / 316L); Stainless steel (1.4310/301); PC; PBT-GF20; EPDM/X

Material (Liquid-accepting parts)

Stainless steel (1.4404 / 316L); O-ring: FKM 80 Shore A

System connection

M18 x 1,5 female thread

Display/operating elements

Display

Functions

10 x LED, 3 colors

Comments

Packing Unit

1 piece

Electrical Connection

Connector: 1 x M12; Translator: A

