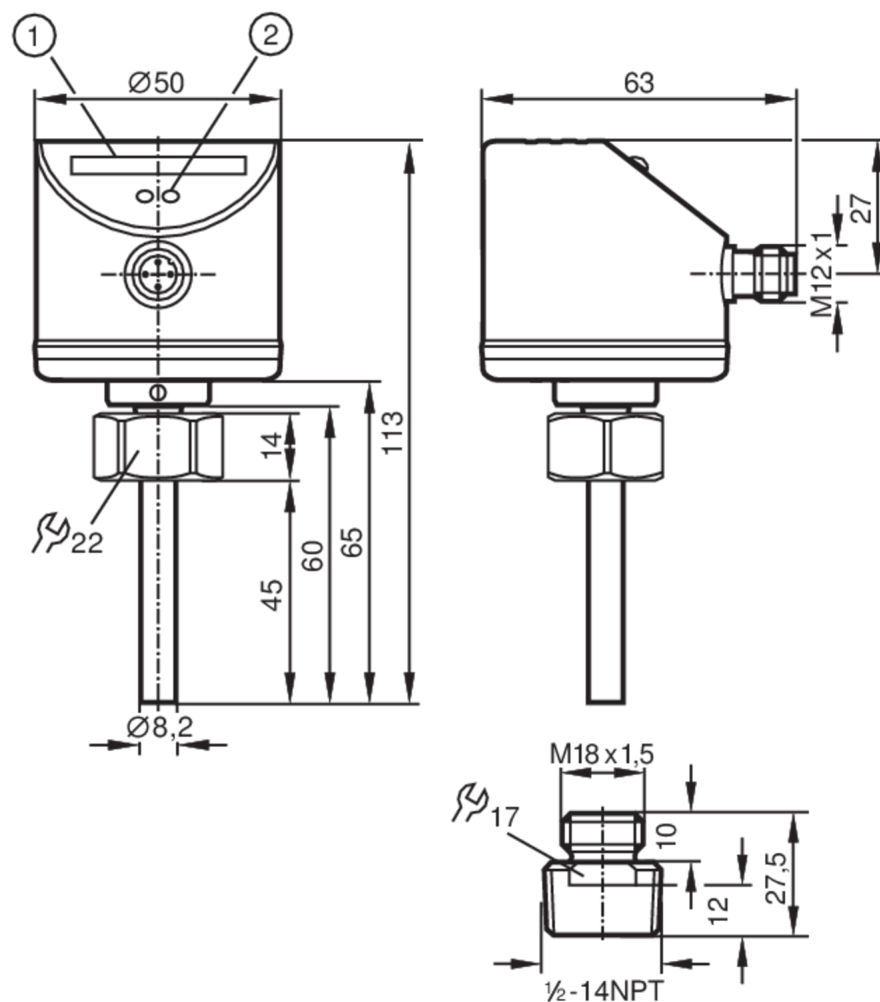


Flow monitor

KIT, SI5010 W/E40107



- 1 LED bar display
- 2 setting pushbutton



Product characteristics

Number of inputs and outputs

Number of digital outputs: 1

Process connection

threaded connection 1/2" NPT external thread

Application

Media

Liquids; Gases

Medium temperature [°C]

-25...80

Liquids

Medium temperature [°C]

-25...80

Gases

Medium temperature [°C]

-25...80

Electrical data

Operating voltage [V]

19...36 DC



Flow monitor

KIT, SI5010 W/E40107

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: 1
Outputs		
Total number of outputs		1
Output signal		switching signal
Electrical design		PNP
Number of digital outputs		1
Output function		normally open / normally closed; (parameterisable)
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		pulsed
Overload protection		yes
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		
Repeatability	[cm/s]	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; 10...70 °C)
Temperature gradient	[K/min]	300
Switch point accuracy	[cm/s]	± 2...± 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)
Response times		
Liquids		
Response time	[s]	1...2; (for a temperature gradient: 1 K/min)
Gases		
Response time	[s]	1...10
Software / programming		
Adjustment of the switch point		pushbutton



Flow monitor

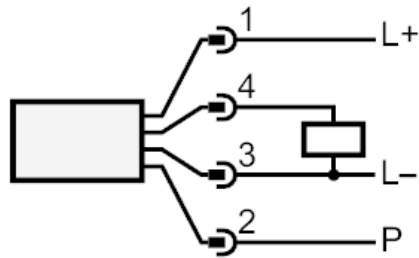
KIT, SI5010 W/E40107

Operating conditions		
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		
Weight	[g]	290.299
Housing		cylindrical
Dimensions	[mm]	Ø 50 / L = 113
Materials		stainless steel (304/1.4301); PC; PBT-GF20; EPDM/X
Materials (wetted parts)		stainless steel (316L/1.4404); O-ring: FKM 80 Shore A
Process connection		threaded connection 1/2" NPT external thread
Probe diameter	[mm]	8.2
Installation length EL	[mm]	27.5
Displays / operating elements		
Display	function	10 x LED, three-colour
Accessories		
Items supplied		Adapter: 1 x 1/2-14NPT, E40107
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; coding: A		
		

Flow monitor

KIT, SI5010 W/E40107

Connection



P = programming wire for remote calibration