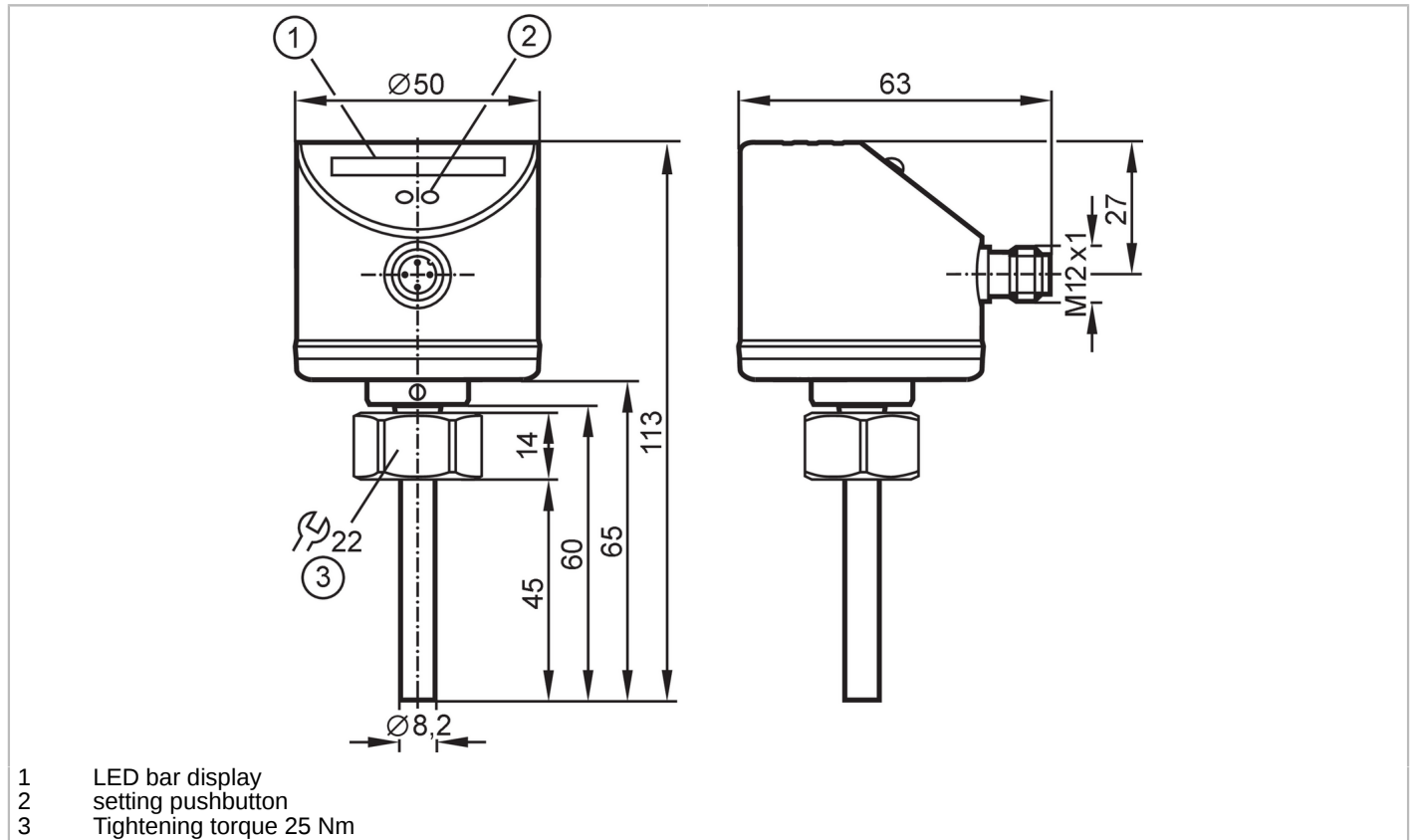


# SI5010



## Flow monitor

SID10ADBFPKG/US-100



### Product characteristics

Number of inputs and outputs	Number of digital outputs: 1
Process connection	threaded connection M18 x 1,5 internal thread

### Application

Media	Liquids; Gases	
Medium temperature [°C]	-25...80	
Pressure rating	300 bar	30 MPa
MAWP for applications according to CRN [bar]	208	

### Liquids

Medium temperature [°C]	-25...80
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### Gases

Medium temperature [°C]	-25...80
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### Electrical data

Operating voltage [V]	18...36 DC
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
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# SI5010



## Flow monitor

SID10ADBFPKG/US-100

Outputs	
Total number of outputs	1
Output signal	switching signal; IO-Link; (configurable)
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	
Probe length L [mm]	45
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...10
Gases	
Response time [s]	1...10
Software / programming	
Adjustment of the switch point	pushbutton
Interfaces	
Communication interface	IO-Link
Transmission type	COM2 (38,4 kBaud)
IO-Link revision	1.1
SDCI standard	IEC 61131-9

# SI5010



## Flow monitor

SID10ADBFPKG/US-100

Profiles	Smart Sensor - SSP 0	Generic Profiled Sensor
	Function	Device identification
	Function	Process data variable
SIO mode		yes
Required master port type		A
Process data analogue		2
Process data binary		2
Min. process cycle time [ms]		3
Supported DeviceIDs	<b>Type of operation</b>	<b>DeviceID</b>
	default	54

### Operating conditions

Ambient temperature [°C]	-25...80
Storage temperature [°C]	-25...100
Protection	IP 65; IP 67

### Tests / approvals

EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN IEC 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (55...2000 Hz)
MTTF [years]		298

### Mechanical data

Weight [g]	248.5
Housing	cylindrical
Dimensions [mm]	Ø 50 / L = 113
Materials	stainless steel (316L/1.4404); 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 M18 x 1,5 internal thread
Probe diameter [mm]	8.2
Installation length EL [mm]	45

### Displays / operating elements

Display	function	10 x LED, three-colour
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### Remarks

Pack quantity	1 pcs.
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### Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4



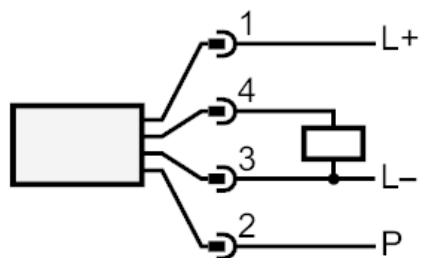
# SI5010



## Flow monitor

SID10ADBFPKG/US-100

### Connection



P = programming wire for remote calibration  
Pin 4: IO-Link