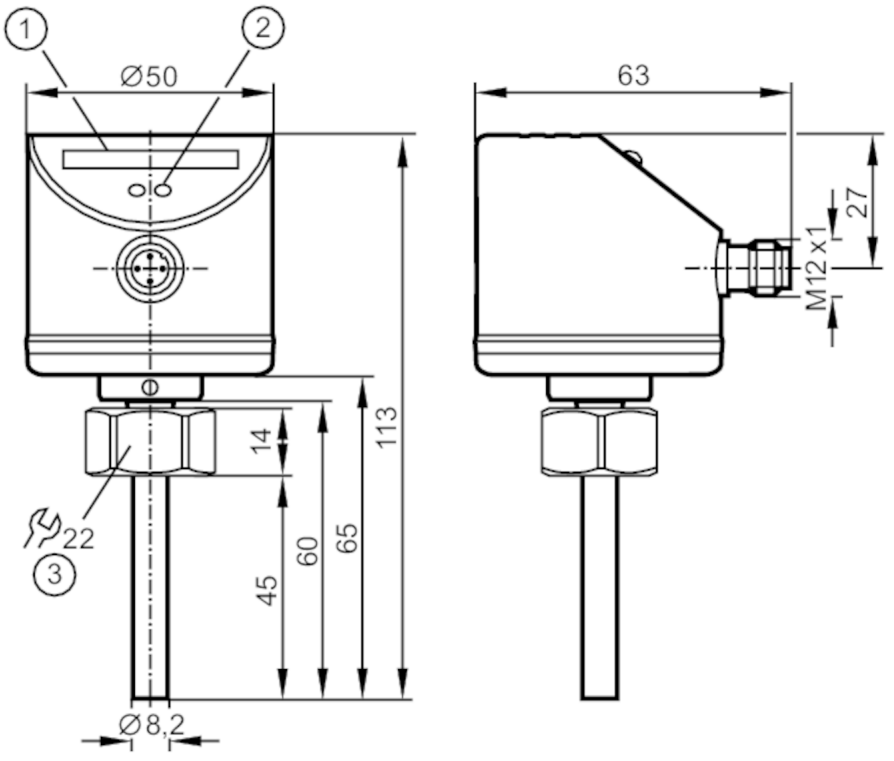
SI0558

Flow monitor

SID10XDBAKOA/US-100



1 LED bar display
2 setting pushbutton
3 Tightening torque 25 Nm

Product characteristics		
Number of inputs and outputs		Number of digital outputs: 1
Process connection		M18 x 1,5 internal thread
Application		
Media		Liquids; Gases
Medium temperature	[°C]	-25...70
Pressure rating	[bar]	300
Liquids		
Medium temperature	[°C]	-25...70
Gases		
Medium temperature	[°C]	-25...70
Electrical data		
Operating voltage tolerance	[%]	-15...15
Operating voltage	[V]	< 24 AC / 18...36 DC; (to SELV/PELV)
Current consumption	[mA]	< 80
Protection class		III
Power-on delay time	[s]	10
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 1

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Flow monitor

SID10XDBAKOA/US-100

Outputs			
Total number of outputs		1	
Output signal		switching signal	
Number of digital outputs		1	
Output function		normally open	
Contact rating		2 A, 24 V AC/DC; (to SELV/PELV)	
Short-circuit protection		no	
Overload protection		no	
Measuring/setting range			
Probe length L	[mm]	45	
Liquids			
Setting range	[cm/s]	3...300	
Greatest sensitivity	[cm/s]	3...100	
Set point SP	[cm/s]	20	
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	
Operating conditions			
Ambient temperature	[°C]	-25...60	
Storage temperature	[°C]	-25...100	
Protection		IP 65; IP 67	
Tests / approvals			
EMC		DIN EN 60947-5-9	
Shock resistance		DIN EN 60068-2-27	20 g (11 ms)
Vibration resistance		DIN EN 60068-2-6	5 g (55...2000 Hz)
MTTF	[years]	351	

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Flow monitor

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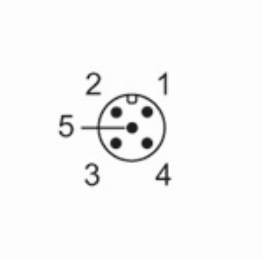
Mechanical data		
Weight	[g]	230.5
Dimensions	[mm]	M18 x 1.5
Thread designation		M18 x 1.5
Materials		stainless steel (316L/1.4404); stainless steel (301/1.4310); PC; PBT-GF20; EPDM/X
Materials (wetted parts)		stainless steel (316L/1.4404); O-ring: FKM 80 Shore A
Process connection		M18 x 1,5 internal thread

Displays / operating elements		
Display	function	10 x LED, three-colour

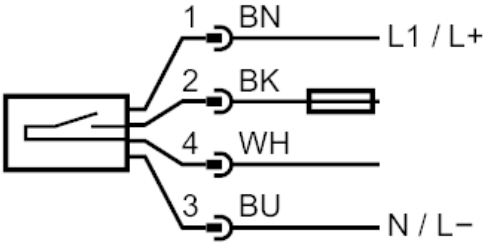
Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



	Core colours :
BN =	brown
BK =	black
WH =	white
BU =	blue