



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		threaded 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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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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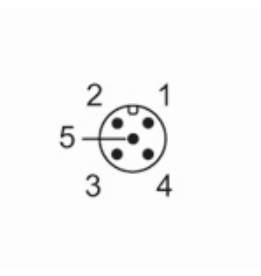
Mechanical data		
Weight	[g]	230.5
Housing		cylindrical
Dimensions	[mm]	Ø 50 / L = 113
Materials		stainless steel (316L/1.4404); stainless steel (301/1.4310); PC; PBT-GF20; EPDM/X
Materials (wetted parts)		stainless steel (316L/1.4404); O-ring: FKM 80 Shore A
Process connection		threaded connection M18 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

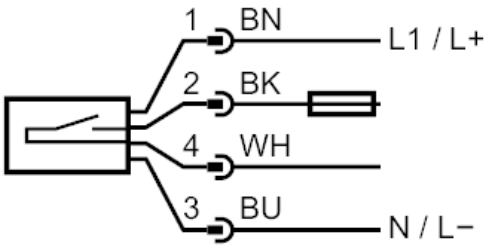
Remarks		
Pack quantity		1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



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