



Flow monitor

SID10XDBAKOA/US-100



- 1 LED 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	300 bar	30 MPa
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)
Max. temperature gradient of medium	[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)
Reaction 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		pushbuttons
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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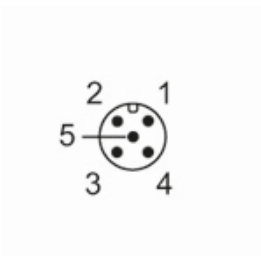
Mechanical data		
Weight	[g]	230.5
Housing		tubular
Dimensions	[mm]	Ø 50 / L = 113
Material		stainless steel (1.4404 / 316L); stainless steel (1.4310 / 301); PC; PBT-GF20; EPDM/X
Materials (wetted parts)		stainless steel (1.4404 / 316L); O-ring: FKM 80 Shore A
Process connection		threaded connection 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-color

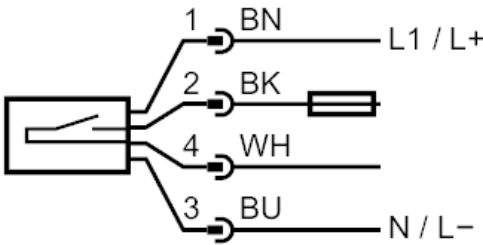
Remarks		
Pack quantity		1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



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