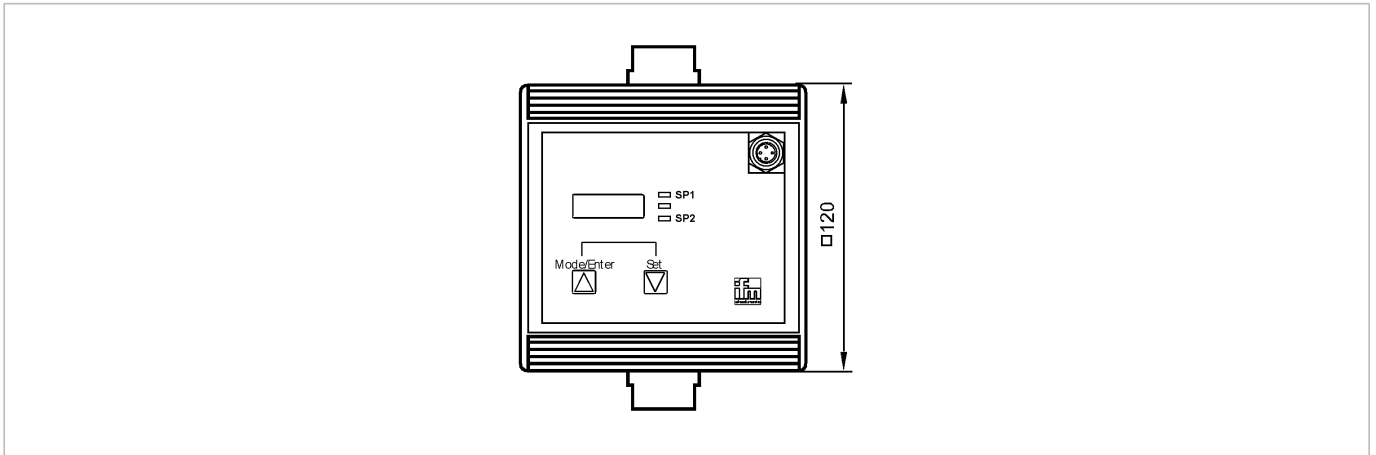


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efector300
 SU0501



SUR12XXXFRKG/W/US-100-IPF

Flow sensors



Product characteristics

Ultrasonic flow meter

Quick disconnect

Process connection: G 1/2

Function programmable

2 outputs

OUT1 = switching output

OUT2 = switching output or analog output

Application

Application

Monitoring of cooling water

Pressure rating [bar]

16

Medium temperature [°C]

5...80

Electrical data

Electrical design

DC PNP/NPN

Operating voltage [V]

20...28 DC

Current consumption [mA]

< 60

Protection class

III

Reverse polarity protection

yes

Outputs

Output function

2 x normally open / closed programmable or 1 x normally open / closed programmable
 + 1 x analogue (4...20 mA / 0...10 V; scaleable)

Current rating [mA]

2 x 250

Voltage drop [V]

< 2

Short-circuit protection

yes (non-latching)

Overload protection

yes

Analog output

4...20 mA; 0...10 V

Max. load [Ω]

max. 500
 min. 2000

Measuring / setting range

Flow monitoring

Measuring range [l/min]

0...20

Display range [l/min]

0...24

Set point, SP [l/min]

0.2...24.0

Reset point, rP [l/min]

0.0...23.8

Analog start point, ASP [l/min]

0.0...16.0

Analog end point, AEP [l/min]

8.0...24.0

in steps of [l/min]

0.1

SU0501 - Ultrasonic flow meter - eclass: 27273101 / 27-27-31-01

Accuracy / deviations	
Flow monitoring	
Accuracy [% of the final value]	< ± 3
Max. temperature gradient of medium [K/min]	200
Reaction times	
Power-on delay time [s]	10
Flow monitoring	
Start-up delay [s]	0...50
Response time [s]	1...3
Software / programming	
Programming options	hysteresis / window function; N.O. / N.C; output polarity; current / voltage output; start-up delay; calibration of displayed values; display can be deactivated; display unit
Environment	
Ambient temperature [°C]	10...60
Protection	IP 65
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: 30 g (11 ms)
Vibration resistance	DIN IEC 68-2-6: 5 g (10...2000 Hz)
Mechanical data	
Process connection	G ½
Materials (wetted parts)	bronze (2.1096.01); stainless steel 316L / 1.4435; PPR (Hostalen); EPDM 80 shore; PES (Ultrason 2010); Centellen 200
Housing materials	brass; ABS; PA
Weight [kg]	1.025
Displays / operating elements	
Display	Switching status 2 x LED yellow Calibration indicator 1 x LED yellow Measured values 7-segment LED display Programming 7-segment LED display
Electrical connection	
Connection	M12 connector; gold-plated contacts

Wiring

Programming of the output function (OUT1 / OUT2):

Hno = hysteresis / normally open
Hnc = hysteresis / normally closed
Fno = window function / normally open
Fnc = window function / normally closed

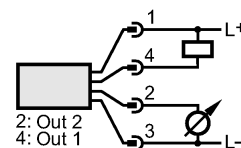
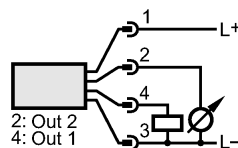
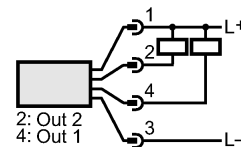
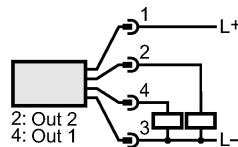
Complementary outputs:

output 1: = Hno, output 2: = Hnc
(with the same SP / rP)

Programming of the analog output (OUT2):

I = current output (4...20 mA)

U = voltage output (0...10 V)



Remarks

Pack quantity [piece]

1