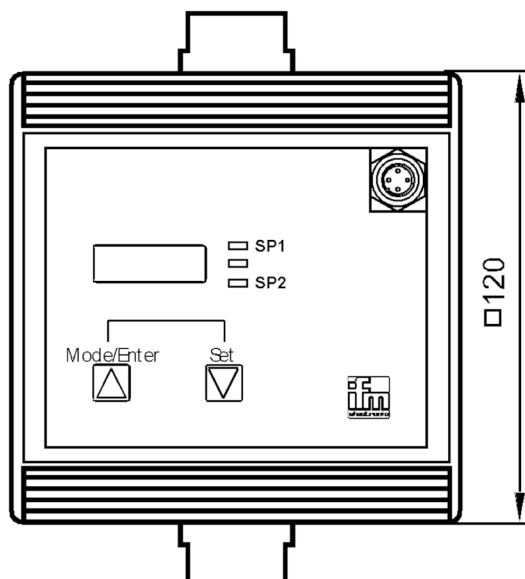




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Product characteristics

Number of inputs and outputs	Number of digital outputs: 2; Number of analogue outputs: 1
Measuring range [l/min]	0...20
Process connection	threaded connection G 1/2

Application

Special feature	Gold-plated contacts
Application	monitoring of cooling water
Medium temperature [°C]	5...80
Pressure rating [bar]	16

Electrical data

Operating voltage [V]	20...28 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: 2; Number of analogue outputs: 1
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Outputs

Total number of outputs	2
Output signal	switching signal; analogue signal; (configurable)
Electrical design	PNP/NPN
Number of digital outputs	2



Ultrasonic flow meter

SUR12XXXFRKG/W/US-100-IPF

Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V]	2
Permanent current rating of switching output DC	[mA]	250; (per output)
Number of analogue outputs		1
Analogue current output	[mA]	4...20; (scalable)
Max. load	[Ω]	500
Analogue voltage output	[V]	0...10; (scalable)
Min. load resistance	[Ω]	2000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Measuring/setting range

Measuring range	[l/min]	0...20
Display range	[l/min]	0...24
Set point SP	[l/min]	0.2...24
Reset point rP	[l/min]	0...23.8
Analogue start point ASP	[l/min]	0...16
Analogue end point AEP	[l/min]	8...24
In steps of	[l/min]	0.1

Accuracy / deviations

Flow monitoring		
Temperature gradient	[K/min]	200
Accuracy (in the measuring range)		< ± 3

Response times

Flow monitoring		
Response time	[s]	1
Delay time programmable dS, dr	[s]	0...50

Software / programming

Parameter setting options		hysteresis / window; normally open / normally closed; switching logic; current/voltage output; start-up delay; adaptation of displayed values; display can be deactivated; Display unit
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Operating conditions

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)



Ultrasonic flow meter

SUR12XXXFRKG/W/US-100-IPF

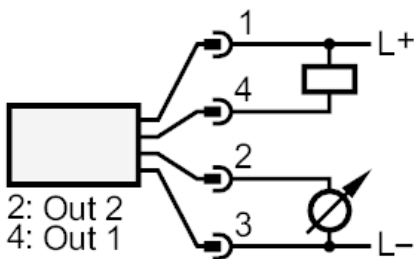
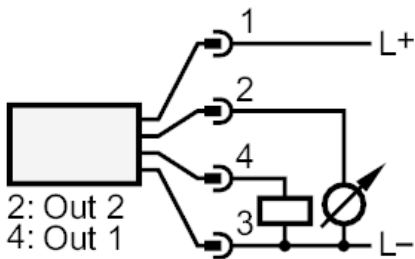
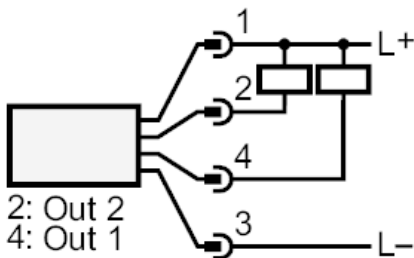
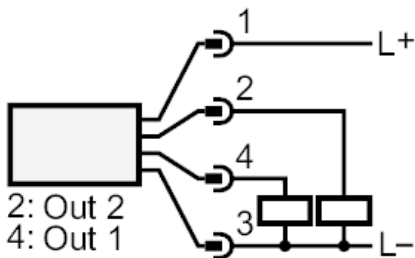
Mechanical data		
Materials	brass; ABS; PA	
Materials (wetted parts)	gunmetal (2.1096.01); stainless steel (316L/1.4435); PPR (Hostalen); EPDM 80 Shore A; PES (Ultrason 2010); Centellen 200	
Process connection	threaded connection G 1/2	
Displays / operating elements		
Display	switching status	2 x LED, yellow
	calibration indicator	1 x LED, yellow
	measured values	7-segment LED display
	programming	7-segment LED display
Display unit	l/min; gpm; l/h; gph; m³/h	
Remarks		
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



OUT1: switching output
OUT2: switching output
analogue output