

SA3010



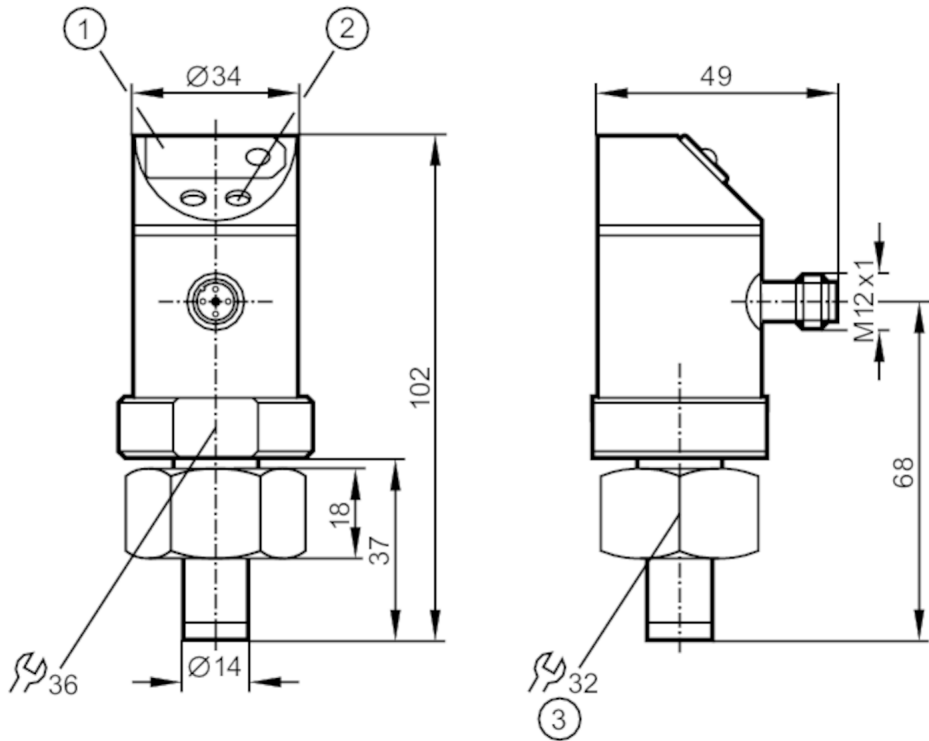
Flow monitor

SAD18BBDFRKG/W/US-100-IPF

phase-out article

Alternative articles: SA5010

When selecting an alternative article and accessories please note that technical data may differ!



- 1 7-segment LED display
- 2 programming buttons
- 3 internal thread M26 x 1.5



Product characteristics	
Number of inputs and outputs	Number of digital outputs: 2; Number of analogue outputs: 1
Measuring range [l/min]	0...10
Application	
Special feature	Gold-plated contacts
Installation	T-pieces; ((DIN 2353): QL 18-18-18 (NW 15 mm) / QL 22-18-22 (NW 19 mm) / QL 28-18-28 (NW 24 mm))
Media	water
Medium temperature [°C]	0...80
Pressure rating [bar]	30
Electrical data	
Operating voltage [V]	20...28 DC
Current consumption [mA]	< 80
Protection class	III
Reverse polarity protection	yes



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Power-on delay time	[s]	10
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 2; Number of analogue outputs: 1
Outputs		
Total number of outputs		2
Output signal		switching signal; analogue signal; (configurable)
Electrical design		PNP/NPN
Number of digital outputs		2
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...10
Display range	[l/min]	0...12
Set point SP	[l/min]	0.1...12
Reset point rP	[l/min]	0...11.9
Analogue start point ASP	[l/min]	0...8
Analogue end point AEP	[l/min]	4...12
In steps of	[l/min]	0.1
Accuracy / deviations		
Flow monitoring		
Repeatability	[% of the measured value]	3 (Q < 30%) / 7 (Q < 100%)
Temperature gradient	[K/min]	200
Accuracy (in the measuring range)		± 10
Response times		
Flow monitoring		
Response time	[s]	5; (10%...90%)
Delay time programmable dS, dr	[s]	0...50

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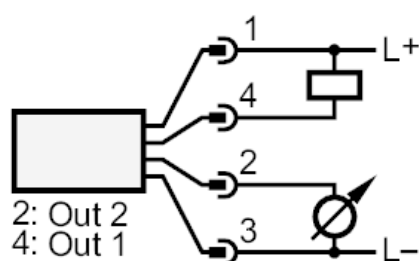
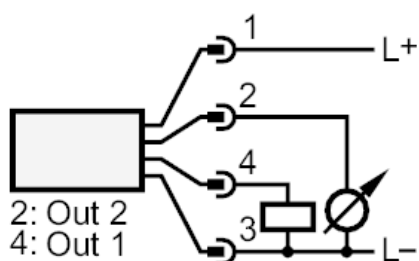
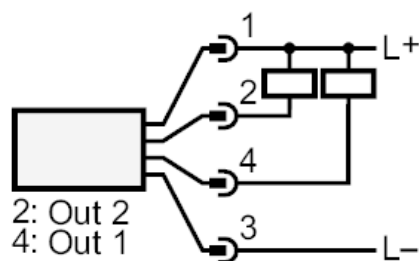
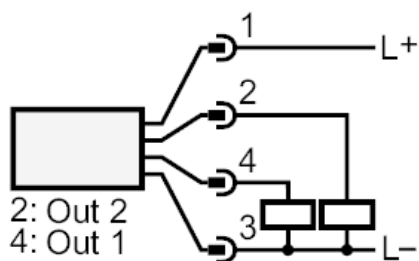
Software / programming		
Parameter setting options		hysteresis / window; normally open / normally closed; switching logic; current/voltage output; inside pipe diameter; start-up delay; adaptation of displayed values; display can be rotated and switched off; Display unit
Operating conditions		
Ambient temperature	[°C]	-20...60
Protection		IP 67
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
MTTF	[years]	184
Mechanical data		
Weight	[g]	330.5
Materials		stainless steel (316L/1.4404); PBT; PC; PA; EPDM/X; FKM
Materials (wetted parts)		stainless steel (316L/1.4404); O-ring: FKM 70 Shore A
Displays / operating elements		
Display	switching status	2 x LED, red
	measured values	7-segment LED display
	programming	7-segment LED display
Display unit		l/min; gpm; l/h; gph; m³/h
Remarks		
Remarks		NW = nominal diameter
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; coding: A; Contacts: gold-plated		
		



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Connection



OUT1: switching output
OUT2: switching output
analogue output