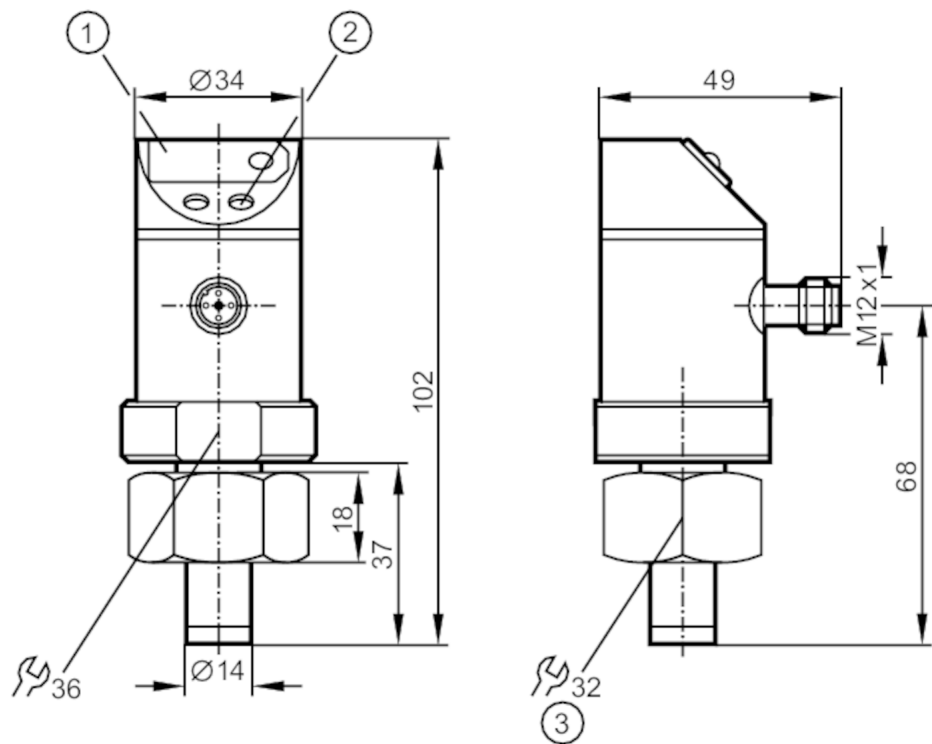


SA3010



Flow monitor

SAD18BBDFRKG/W/US-100-IPF



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



Application		
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
Power-on delay time	[s]	10



Flow monitor

SAD18BBD FRKG/W/US-100-IPF

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
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

SA3010

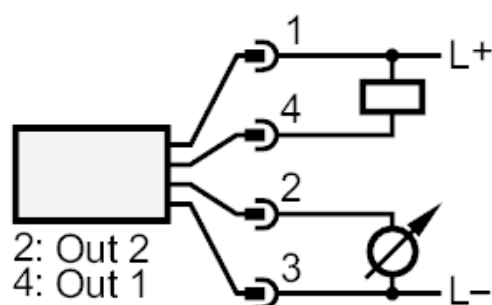
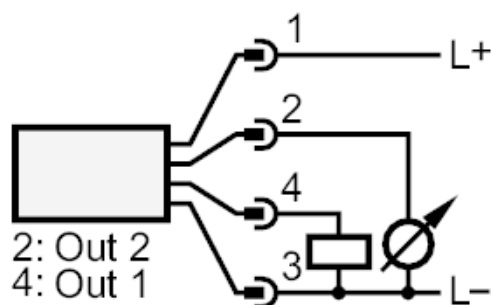
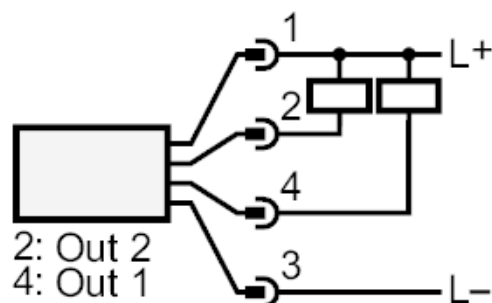
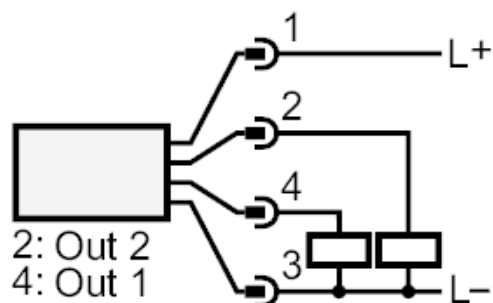


Flow monitor

SAD18BBD FRKG/W/US-100-IPF

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]	325
Materials	stainless steel (1.4404 / 316L); PBT; PC; PA; EPDM/X; FKM	
Materials (wetted parts)	stainless steel (1.4404 / 316L); 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; gal/min; l/h; gal/h; m³/h	
Remarks		
Remarks	NW = nominal diameter	
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12; Contacts: gold-plated		
		

Connection



OUT1: switching output
OUT2: switching output
 analogue output