SA1000

Flow sensor

SAM16BBD100G/W/US

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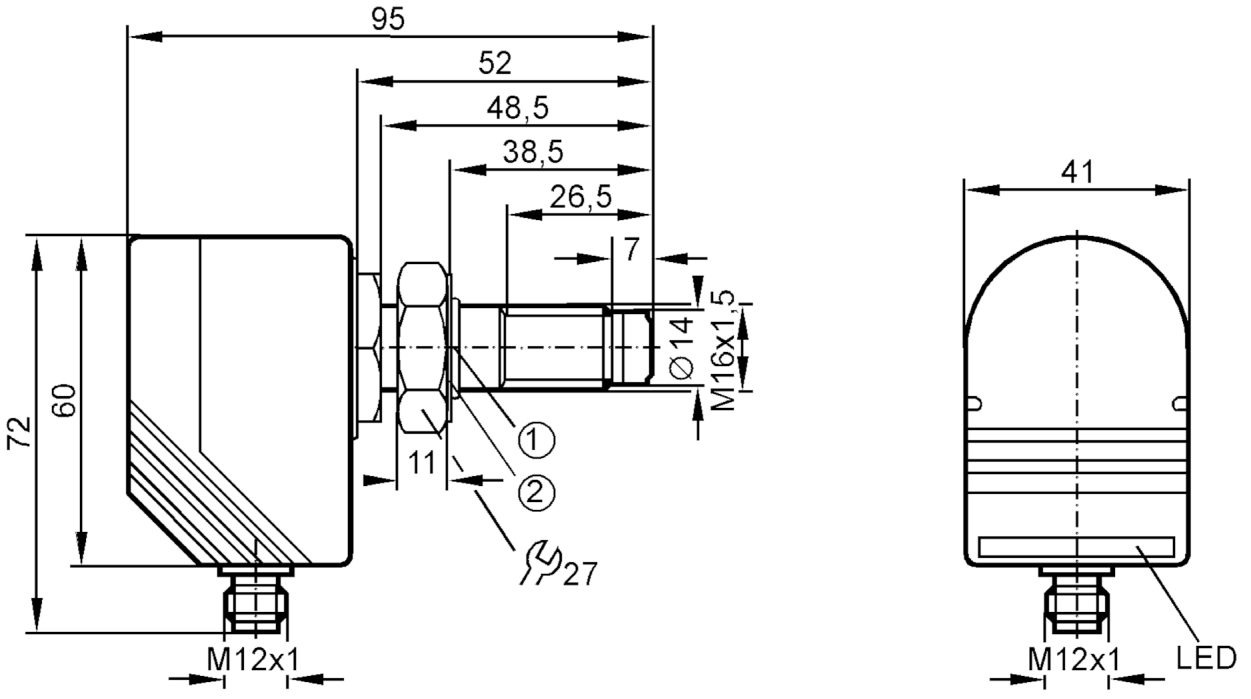
Alternative articles: SA5000

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



1 O-ring
2 compression washer

Product characteristics		
Process connection		M16 x 1,5
Application		
Design		for pipes DN 40...DN 100
Media		water
Note on media		Clean water without contamination and additives.
		Dirt/build-up on the sensor tip affects the measurement accuracy.
		Check the sensor tip for build-up from time to time.
		If necessary, clean with a soft cloth and a vinegar cleansing agent.
Medium temperature	[°C]	0...80
Pressure rating	[bar]	30
Electrical data		
Operating voltage	[V]	20...28 DC; (to SELV/PELV)
Current consumption	[mA]	< 80
Reverse polarity protection		yes
Power-on delay time	[s]	15
Outputs		
Output signal		analogue signal

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Analogue current output	[mA]	4...20; (linearised)
Max. load	[Ω]	500
Analogue voltage output	[V]	; (linearised)
Short-circuit protection		no
Overload protection		yes
Measuring/setting range		
Flow range	[cm/s]	3...150
Accuracy / deviations		
Note on repeatability		7 (v < 150 cm/s), 3 (v < 50 cm/s)
Temperature gradient	[K/min]	200
Measuring error	[% of the final value]	max. ± 10
Response times		
Response time	[s]	5; (10%...90%)
Operating conditions		
Ambient temperature	[°C]	-20...60
Protection		IP 67
Mechanical data		
Weight	[g]	268.8
Dimensions	[mm]	M16 x 1.5
Thread designation		M16 x 1.5
Materials		PBT-GF20
Materials (wetted parts)		stainless steel (316L/1.4404); stainless steel (316Ti/1.4571); O-ring: NBR 70 Shore A
Process connection		M16 x 1,5
Displays / operating elements		
Display	function	10 x LED, green Resolution 10% of the final value
Remarks		
Pack quantity		1 pcs.
Electrical connection		

Connector: 1 x M12; coding: A

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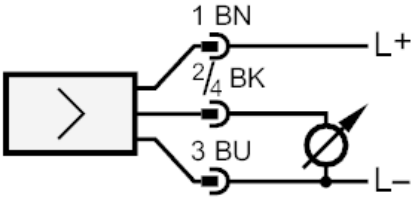
Connection



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