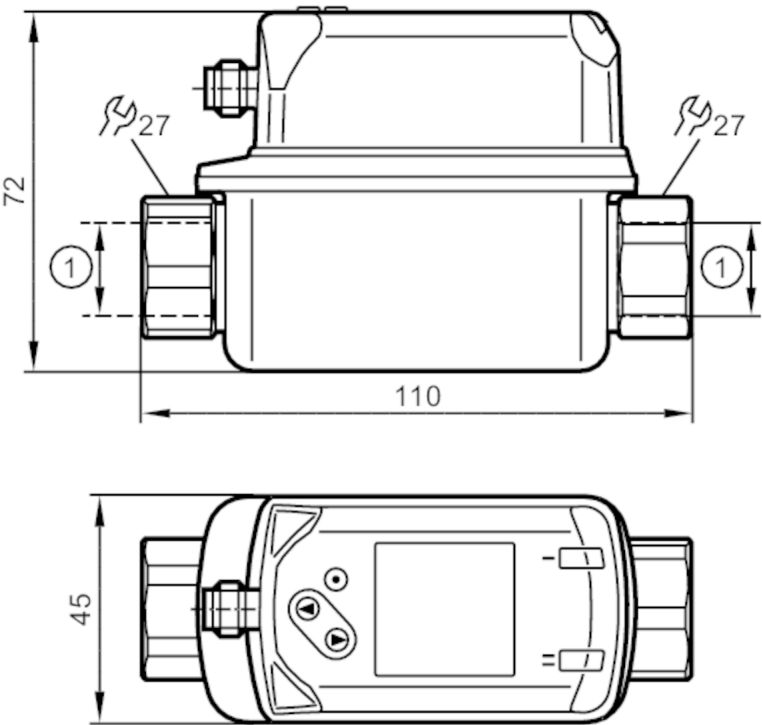


SV5200



Vortex flow meter with display

SVR12XXXIRKG/US-100



1 G 1/2
DN 10



Application

Application	for industrial applications
Media	water
Medium temperature [°C]	-10...90
Pressure rating [bar]	12
Note on pressure rating	up to 40 °C

Electrical data

Operating voltage [V]	18...30 DC
Current consumption [mA]	< 30
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	< 3

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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Vortex flow meter with display

SVR12XXXIRKG/US-100

Outputs		
Total number of outputs	2	
Output signal	switching signal; frequency signal; IO-Link; (configurable)	
Electrical design	PNP/NPN	
Number of digital outputs	2	
Output function	normally open / normally closed; (parameterisable)	
Max. voltage drop switching output DC [V]	2.5	
Permanent current rating of switching output DC [mA]	100	
Short-circuit protection	yes	
Overload protection	yes	
Measuring/setting range		
Measuring range	2...40 l/min	0.12...2.4 m³/h
Display range	0...48 l/min	0...2.88 m³/h
Resolution	0.2 l/min	0.01 m³/h
Set point SP	2.4...40 l/min	0.14...2.4 m³/h
Reset point rP	2...39.6 l/min	0.12...2.38 m³/h
Measuring dynamics	1:20	
Frequency end point, FEP	8...40 l/min	0.48...2.4 m³/h
Frequency at the end point FRP [Hz]	100...1000	
In steps of	0.2 l/min	0.01 m³/h
Temperature monitoring		
Measuring range [°C]	-10...90	
Display range [°C]	-30...110	
Resolution [°C]	0.5	
Set point SP [°C]	-9...90	
Reset point rP [°C]	-10...89	
In steps of [°C]	0.5	
Frequency start point, FSP [°C]	-10...70	
Frequency end point, FEP [°C]	10...90	
Frequency at the end point FRP [Hz]	100...1000	
Accuracy / deviations		
Flow monitoring		
Accuracy (in the measuring range)	± 2 % MEW	
Repeatability	± 0,5 % MEW	
Temperature monitoring		
Accuracy [K]	± 1	
Response times		
Flow monitoring		
Response time [s]	1; (dAP = 0)	
Damping for the switching output dAP [s]	0...5	

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Temperature monitoring		
Dynamic response T05 / T09	[s]	T09 = 6
Software / programming		
Parameter setting options	hysteresis / window; normally open / normally closed; switching logic; frequency output; switch-on/switch-off delay; Damping; Display unit	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
IO-Link device ID	488 d / 00 01 E8 h	
Profiles	Smart Sensor: Process Data Variable; Device Identification, Device Diagnosis	
SIO mode	yes	
Required master port type	A	
Process data analogue	2	
Process data binary	2	
Min. process cycle time	[ms]	3
Operating conditions		
Ambient temperature	[°C]	0...60
Note on ambient temperature	medium temperature < 80 °C medium temperature < 90 °C: 0...50 °C	
Storage temperature	[°C]	-20...80
Protection	IP 65; IP 67	
Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	5 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	with water / 10...50 Hz 1 mm
		with water / 50...2000 Hz 2 g
MTTF	[years]	342
UL approval	UL Approval no.	I001
Pressure Equipment Directive	Sound Engineering Practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data		
Weight	[g]	429
Materials	stainless steel (1.4404 / 316L); PC; PBT+PC-GF30; PPS; TPE-U	
Materials (wetted parts)	stainless steel (1.4404 / 316L); ETFE; PA 6T; PPS; FKM	
Tightening torque	[Nm]	30
Process connection	threaded connection G 1/2 DN10	
Remarks		
Remarks	MW = measured value MEW = Final value of the measuring range	
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12; Contacts: gold-plated		

SV5200

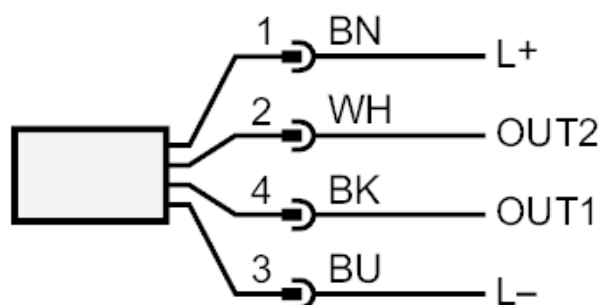


Vortex flow meter with display

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Connection



OUT1:

- Flow monitoring
- switching output
- frequency output
- IO-Link

OUT2:

- flow monitoring and temperature monitoring
- switching output
- frequency output

colours to DIN EN 60947-5-2

Core colours :

BK = black
BN = brown
BU = blue
WH = white

SV5200

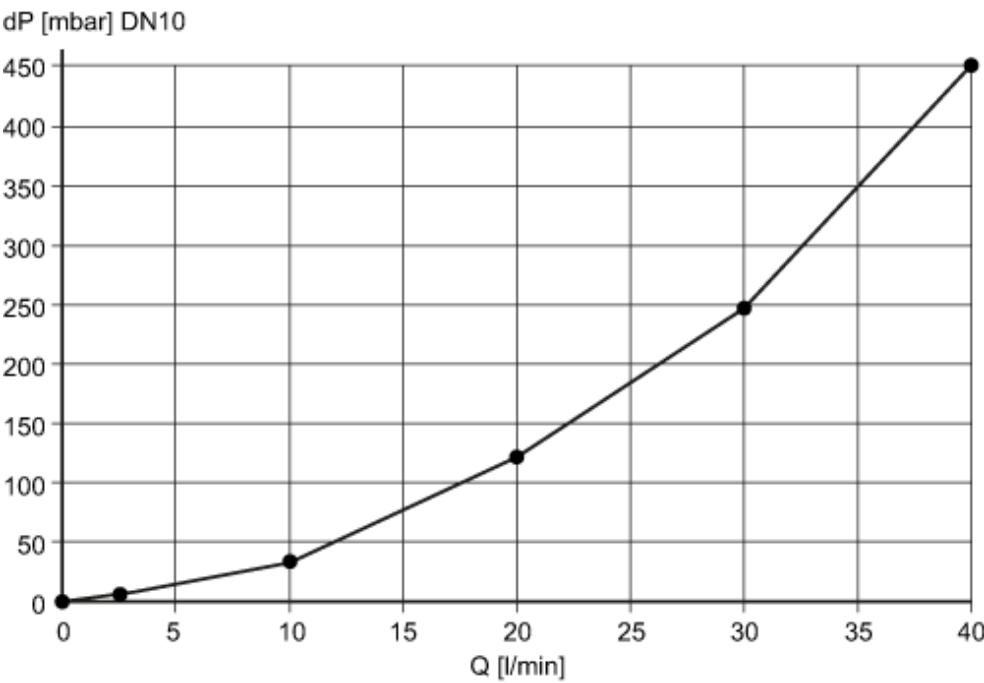


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Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity

pressure rating (bar)

