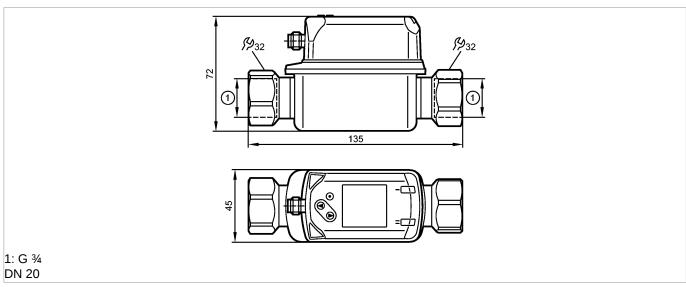
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SVR34XXXIRKG/US-100 Flow sensors



## $C \in \bigcup_{\text{LISTED}} us \otimes IO-Link$

## Product characteristics Vortex flow meter DN 20 Process connection: G ¾ Measuring range 5...100 I/min

-10...90 °C

Application			
Application		Liquids of the fluid group 2 according to the Pressure Equipment Directive (PED):  Water, deionised water, cooling water	
Pressure rating [bar]		P [kPa] 1200 1000 800 400 200 40 50 60 70 80 90 100 T [°C]	
Pressure rating	[bar]	12; (up to 40 °C)	
Medium temperature	[°C]	-1090	

	r ~1	
Electrical data		
Electrical design		DC PNP/NPN
Operating voltage	[V]	1830 DC
Current consumption	[mA]	< 30
Insulation resistance	[MΩ]	> 100 (500 V DC)
Protection class		III
Reverse polarity protection	1	yes

Outputs	
Output function	OUT1: normally open / normally closed programmable or frequency or IO-Link
	OUT2: normally open / normally closed programmable or frequency

## SV7200



SVR34XXXIRKG/US-100 Flow sensors

Current rating	[mA]	100
Voltage drop	[V]	2.5
Short-circuit protection		yes
Overload protection		yes
Measuring / setting range		
Flow monitoring		
Measuring range		5100 [l/min] 0.36 [m³/h]
Display range		0120 [l/min] 07.2 [m³/h]
Resolution		0.5 [l/min] 0.02 [m³/h]
Set point, SP		6100 [l/min] 0.366 [m³/h]
Reset point, rP		599 [l/min] 0.35.94 [m³/h]
Frequency end point, FEP		20100 [l/min] 1.26 [m³/h]
in steps of		0.5 [l/min] 0.02 [m³/h]
Frequency at the end point, F	rP [Hz]	1001000
Measuring dynamics		1:20
Temperature monitoring		
Measuring range	[°C]	-1090
Display range	[°C]	-30110
Resolution	[°C]	0.5
Set point, SP	[°C]	-990
Reset point, rP	[°C]	-1089
Frequency start point, FSP	[°C]	-1070
Frequency end point, FEP	[°C]	1090
in steps of	[°C]	0.5
Frequency at the end point, F	rP [Hz]	1001000
Accuracy / deviations		
Flow monitoring		
Accuracy		± 2 % MEW
Repeatability		± 0.5 % MEW
Pressure loss (dP) / flow rate	(Q)	dP [mbar] DN20
		350
		300
		250
		200
		150
		100
		50
		0 20 40 60 80 100 Q [l/min]
Temperature monitoring		
Accuracy	[K]	± 1
Reaction times		
Power-on delay time	[s]	< 3
Flow monitoring		

< 1 (dAP = 0)

[s]

Response time



SVR34XXXIRKG/US-100



Flow sensors

Damping, dAP	[s]	05
Temperature monitoring		
Response time	[s]	T09 = 6
Software / programming		
Programming options		hysteresis / window function; NO / NC; output polarity; frequency output; on delay, off delay; damping; display unit
Interfaces		
IO-Link Device		
Transfer type		COM2 (38.4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9
IO-Link Device ID		492 d / 00 01 EC h
Profiles		Smart Sensor: Process Data Variable; Device Identification, Device Diagnosis
SIO mode		yes
Required master port class		Α
Process data analogue		2
Process data binary		2
Min. process cycle time	[ms]	3
Environment		
Ambient temperature	[°C]	060, at max. 80 °C medium temperature (050 °C at max. 90 °C medium temperature)
Storage temperature	[°C]	-2080
Protection		IP 65 / IP 67
Tests / approvals		
Pressure equipment directive	e	sound engineering practice
EMC		DIN EN 61000-6-2 DIN EN 61000-6-3
Shock resistance		DIN EN 60068-2-27 5 g (11 ms)
Vibration resistance		with water 1050 Hz: 1 mm DIN EN 60068-2-6 with water 502000 Hz: 2 g
UL approval number		1001
Mechanical data		
Process connection		G ¾
Materials (wetted parts)		stainless steel (316L / 1.4404); ETFE; PA 6T; PPS; FKM
Housing materials		stainless steel (316L / 1.4404); PC; PBT+PC-GF 30; PPS; TPE-U
Tightening torque	[Nm]	30
Weight	[kg]	0.477
Electrical connection	[.,9]	•
Connection		M12 connector; gold-plated contacts
Wiring Core colors BK black BN brown	2 1	1 PN
BU blue	3 4	L+ 2 WH OUT2



SVR34XXXIRKG/US-100 Flow sensors

**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

Remarks		
Remarks		MW = measured value MEW = final value of the measuring range
Pack quantity	[piece]	1

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