## SV vortex flowmeters with display for water based media



SVN34XXXIRKG/US-100 M4x6,0 M4x4,0 M4x6,0 16,5 28,5 57 139



3/4" NPT DN 20

Product characteristics			
Number of inputs and outputs		Number of digital outputs: 2	
Measuring range		801585 gph	1.326.4 gpm
Process connection			threaded connection 3/4" NPT DN20
Application			
System			gold-plated contacts
Application		for industrial applications	
Media			water; glycol solutions; Coolants
Medium temperature	[°F]		14194

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SVN34XXXIRKG/US-100 Pressure rating	[bar]		12	
Pressure rating	[psi]		174	
Note on pressure rating	[bow]		up to 40 °C	
MAWP (for applications according to CRN)	[bar]		4.3	
Electrical data				
Operating voltage	[V]		1830 DC	
Current consumption	[mA]		< 30	
Min. insulation resistance	[ΜΩ]		100; (500 V DC)	
Protection class			III	
Reverse polarity protection			yes	
Power-on delay time	[s]		< 3	
Inputs / outputs				
Number of inputs and outputs	6		Number of digital outputs: 2	
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 / closed; (configurable)	
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		801585 gph	1.326.4 gpm	
Display range		01900 gph	031.7 gpm	
Resolution		5 gph	0.1 gpm	
Set point SP		951585 gph	1.626.4 gpm	
Reset point rP		801570 gph	1.326.2 gpm	
Frequency end point, FEP		3151585 gph	5.326.4 gpm	
In steps of		5 gph	0.1 gpm	
Frequency at the end point FRP	[Hz]		1001000	
Measuring dynamics			1:20	
Temperature monitoring				
Measuring range	[°F]		14194	
Display range	[°F]		-22230	
Resolution	[°F]			
Set point SP	[°F]			
Reset point rP	[°F]			
In steps of	[°F]			
Frequency start point, FSP	[°F]			
Frequency end point, FEP	[°F]		50194	
	Γ'1		50134	

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SVN34XXXIRKG/US-100 Frequency at the end point FRP	[Hz]	1001000

FRP				
Accuracy / deviations				
Flow monitoring				
Accuracy (in the measuring range)			± 2 % MEW; (water)	
Repeatability			± 0,5 % MEW	
Temperature monitoring				
Accuracy	[K]		± 1	
Reaction times				
Flow monitoring				
Response time	[s]		1; (dAP = 0)	
Damping process value dAP	[s]		05	
Temperature monitoring				
Dynamic response T05 / T09	[s]		T09 = 6	
Software / programming				
Parameter setting options			dow; normally open / closed; switching logic; witch-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		
Profiles		Smart Sensor: Process Data Variable; Device Identification, Device Diagnosis		
SIO mode			yes	
Required master port class			А	
Process data analog		2		
Process data binary			2	
Min. process cycle time	[ms]		3	
Supported DeviceIDs		Type of operation	DeviceID	
		default	494	
Operating conditions				
Ambient temperature	[°F]		32140	
Note on ambient temperature			nedium temperature < 176 °F	
Storage temperature	[°F]	medium	n temperature < 194 °F: 32122 °F	
Protection	נ רו	-4176		
			IP 65; IP 67	
Tests / approvals		DIN EN 61000 C 2		
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 / 1050 Hz 1 mm	
			with water / 502000 Hz 2 g	
MTTF [	years]		342	
UL approval		UL approval number	1001	

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Pressure equipment directive sound engineering practice; can be used for group 2 fluids; group 1 fluids on request

Mechanical data		
Weight	[g]	505.5
Material		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 3/4" NPT DN20

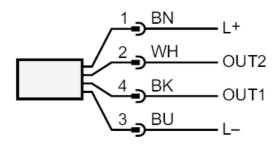
Remarks	
Remarks	MW = Measured value
	MEW = Final value of the measuring range
Pack quantity	1 pcs.

### Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



#### Connection



OUT1: Flow monitoring
- Switching output
- Frequency output

- IO-Link

OUT2: flow monitoring and temperature monitoring

Switching outputFrequency output

Colors to DIN EN 60947-5-2

Core colors :

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

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