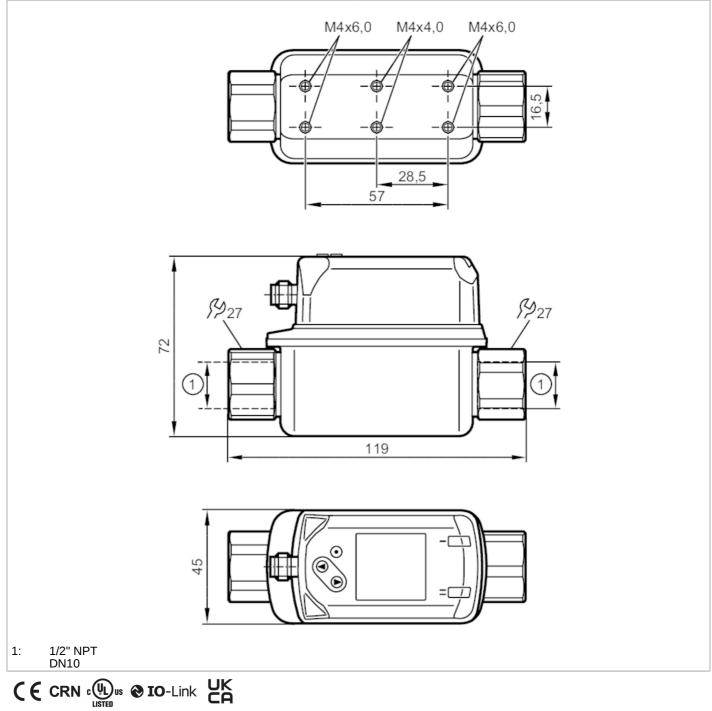
SV vortex flowmeters with display for water based media



SVN12XXXIRKG/US-100



| Product characteristics | | | |
|------------------------------|-------|------------------------------|-----------------------------------|
| Number of inputs and outputs | ; | Number of digital outputs: 2 | |
| Measuring range | | 32634 gph | 0.5510.55 gpm |
| Process connection | | | threaded connection 1/2" NPT DN10 |
| Application | | | |
| System | | | gold-plated contacts |
| Application | | | for industrial applications |
| Media | | | water; glycol solutions; Coolants |
| Pressure rating | [bar] | | 12 |

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| SVN12XXXIRKG/US-100 Pressure rating | [psi] | | 174 | |
|---|-------------------------|--|---|--|
| Note on pressure rating | | up to 40 °C | | |
| MAWP (for applications according to CRN) | [bar] | | | |
| Electrical data | | | | |
| Operating voltage | [V] | | 1830 DC | |
| Current consumption | [mA] | | < 30 | |
| Min. insulation resistance | [MΩ] | 100; (500 V DC) | | |
| Protection class | | | | |
| Reverse polarity protection | | yes | | |
| Power-on delay time | [s] | <3 | | |
| Inputs / outputs | | | | |
| Number of inputs and outputs | ; | | Number of digital outputs: 2 | |
| Outputs | | | | |
| Total number of outputs | | | 2 | |
| Output signal | | switchin | g 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 | | 32634 gph | 0.5510.55 gpm | |
| Display range | | 0760 gph | 012.7 gpm | |
| Resolution | | 2 gph | 0.05 gpm | |
| Set point SP | | 38634 gph | 0.6510.55 gpm | |
| Reset point rP | | 32628 gph | 0.5510.45 gpm | |
| Frequency end point, FEP | | 126634 gph | 2.110.55 gpm | |
| In steps of | F 1 - - - | 2 gph | 0.05 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] | 16194 | | |
| Reset point rP | [°F] | 14192 | | |
| In steps of | [°F] | 1 | | |
| Frequency start point, FSP | [°F] | 14158 | | |
| Frequency end point, FEP | [°F] | 50194 | | |

MTTF

UL approval

[years]

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| media | | | | | |
|--|------|--|---|---------------|--|
| SVN12XXXIRKG/US-100 Frequency at the end point FRP | [Hz] | 1001000 | | | |
| 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 | | | ndow; normally open / closec switch-on/switch-off delay; D | | |
| 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 | | A | | | |
| Process data analog | | | 2 | | |
| Process data binary | | | 2 | | |
| Min. process cycle time | [ms] | | 3 | | |
| Supported DeviceIDs | | Type of operation | DeviceID | | |
| | | default | 490 | | |
| Operating conditions | | | | | |
| Ambient temperature | [°F] | | 32140 | | |
| Note on ambient temperature | | | medium temperature < 176 | | |
| Character temperature | | med | um temperature < 194 °F: 32. | 122 °F | |
| Storage temperature | [°F] | -4176 | | | |
| Protection | | | IP 65; IP 67 | | |
| Tests / approvals | | | | | |
| EMC | | DIN EN 61000-6-2 | | | |
| Shock resistance | | DIN EN 61000-6-3 DIN EN 60068-2-27 | 5 g (11 ms) | | |
| Vibration resistance | | DIN EN 60068-2-6 | | 1050 Hz 1 mm | |
| | | | | 502000 Hz 2 g | |

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UL approval number

342

1001

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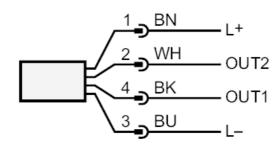
SVN12XXXIRKG/US-100 Pressure equipment directive

| Pressure equipment directive | | sound engineering practice; can be used for group 2 fluids; group 1 fluids on request | |
|------------------------------|------|---|--|
| Mechanical data | | | |
| Weight | [g] | 468 | |
| 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 1/2" NPT DN10 | |
| 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 output |
| - | Frequency output |
| | Colors to DIN EN 60947-5-2 |
| | Core colors : |
| BK = | black |
| BN = | brown |
| BU = | blue |
| WH = | white |

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