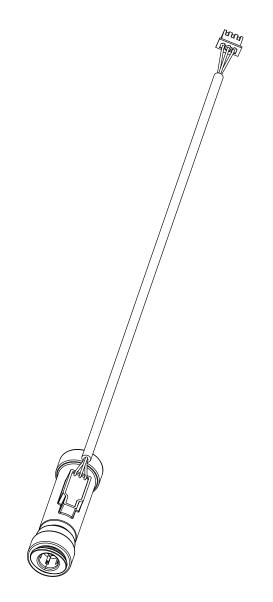
DATA SHEET





Nano Flex cable 1.5 meter with JST XHP-3 plug and 2x DMfit Catridge for Ø8mm hose Part number: 9NF-3300-E06

Digmesa AG, Keltenstrasse 31, CH—2563 Ipsach / Switzerland Phone +41 (32) 332 77 77, Fax +41 (32) 332 77 88 www.digmesa.com Version 01 Nano Flex cable with JST XHP-3 plug #9NF-3300-E06 GB Page 1-4

General Description

The Nano Flex flow sensor is a general-purpose device. It is employed for measuring, regulating and metering liquid quantities and guarantees most accurate results. In addition, an integrated pulse generator ensures a practically unlimited service life.

ees directly connected. ted

Specific applications: Straight flow path, com-

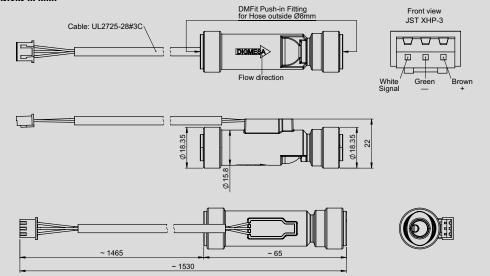
pact design. Hose diameters from Ø8.0mm can be

Approvals / Standards

EN55014-1:00+A1:01+A2:02, EN61000-6-3:01+A11:04, IEC61000-6-3:06(ed.2.0), EN61000-3-2:06, IEC61000-3-2:05(ed.3.0), EN61000-3-3:95+A1:01+A2:05, IEC61000-3-3:94+A1:01+A2:05(Cons.ed 1.2), EN55014-2:97+A1:01, EN61000-6-1:01, IEC61000-6-1:05(ed.2), LFGB (EU 1935 /2004, EU10/2011)

| Materials (wetted) | | Technical data: | Technical data: | | Electrical connection ratings: | |
|--------------------|---|---|---|--------------------|--|--------------------|
| Housing: | PBT 30%GF | Linear range: | from 0.25 I/min | Power supply: | +2.8 to $+24$ VDC | |
| Bearing : | PVDF | Durability: | ~ 500'000 liters at max. flow (page 4) +/- 2.0% * + 0°C to + 60°C 32°F to 140°F | Consumption: | <8 mA | |
| Turbine: | РК | Measuring accuracy: Temperature range: | | Signal connection: | Open collector, NPN | |
| Magnete: | Ceramic Sr Fe O (in contact with medium) | | | Signal voltage: | 0 VDC GND (saturation <0.7 V) | |
| | | | | | | Pressure range: |
| | | Leakage current: | max. 10 μ A | | | |
| | | Mounting position: | freely selectable | Connection: | Cable UL2725-28#3C with 3-pin JST XHP-3 connector, 2.5mm pitch | |
| | | Nozzle size: | Ø 3.0mm | | | |
| | | | * Accuracy in the linear range for individually calibrated equipment | | Signal: | Square-wave output |
| | | | | | Duty Cycle: | ~50% |

Dimensions in mm:





Drying and/or operating with compressed air destroys the flow sensor!

RESISTANCE

Special regulations which must be complied with by the flow sensor manufacturer apply to each country, e.g. CE, NSF, FDA and SK. The various media flowing through the flow sensor differ from application to application. You are advised to enquire with the medium manufacturer as to whether the entire installation and the flow sensor are resistant to the medium itself (see Material)!

ELECTRONIC

DIGMESA electronic circuitry is always designed for operation with DIGMESA flow sensors. Please note the following if connecting to other electronic circuitry:

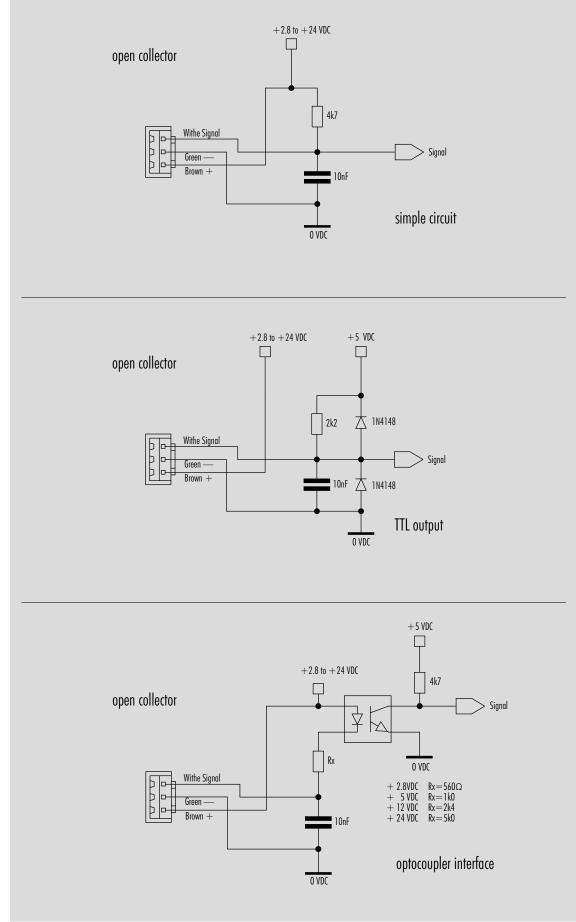
• The flow sensor does not supply an output voltage but switches the signal terminal to 0 V ground (actuated) or leaves it open (nonactuated)

 \bullet There must be a pull-up resistor between power supply + and signal depending on electronic circuitry!

We reserve the right to make modifications in the interests of technical progress.

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Interface Connection: Examples Open collector

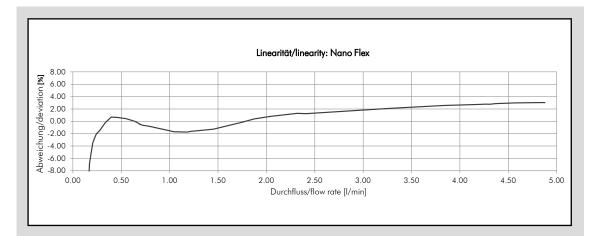


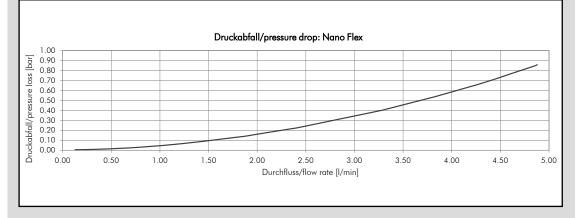
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Measurement Curve Nano Flex Ø3.0mm





Medium: Water / Pressure: 3.5 bar

| Nozzle size | Pulses/ Litre | ml/pulse | min. flow rate [l/min] | max. flow rate [l/min] | Pulse frequency [Hz] min/max |
|-------------|------------------|----------|---------------------------|---------------------------|---------------------------------|
| Ø 3.0 mm | 2'580 | 0.38 | 0.25 | 3.0 | ~10/129 |

The values specified must be considered as approximate values.

The number of pulses per litre may differ depending on medium and installation. We recommend to calibrate the number of pulses per litre in line with the complete installation.

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MEASUREMENT TIPS

- Ensure that there is no fast-pulsatory movement of the media
- Ensure that there are no reverse pressure surges
- Ensure that there is no air in the system
- Keep the pressure loss as small as possible
- Pay attention to the mounting position of the flow sensor
- Min/max flow should be in the linear range of the selected flow sensor
- Clean the system at appropriate intervals
- Avoid electrical voltage spikes
- Incorrect wiring of power supply +, signal and ground will destroy the flow sensor
- Do not load electrical contacts mechanically
- Avoid moisture on the electrical contacts
- Avoid stray pick-up via the cable (Do not lay cables in parallel with high current loads)

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