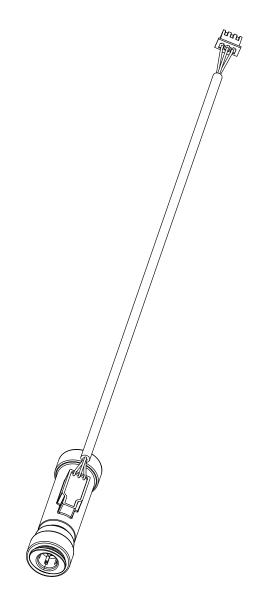
DATA SHEET





Nano Flex cable 30 cm with JST XHP-3 plug and 2x DMfit Catridge for Ø8mm hose Part number: 9NF-3300-E04

Digmesa AG, Keltenstrasse 31, CH—2563 Ipsach / Switzerland Phone +41 (32) 332 77 77, Fax +41 (32) 332 77 88 www.digmesa.com Version 03 Nano Flex cable with JST XHP-3 plug #9NF-3300-E04 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.

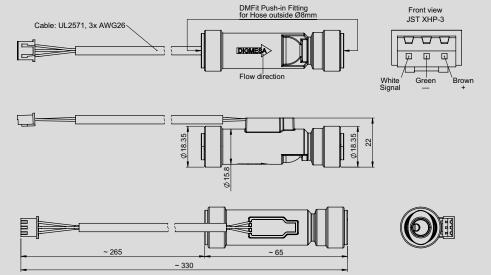
Specific applications: Straight flow path, compact design. Hose diameters from Ø8.0mm can be directly connected.

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, EK55014-2:77 + 5 IEC61000-6-1:05(ed.2) NSF SF CE

					N97NNSECAN F1 Sector 9
Materials (wetted)		Technical data:		Electrical connection ratings:	
Housing:	PBT 30%GF	Linear range:	from 0.25 l/min	Power supply:	+2.8 to $+24$ VDC
Bearing :	PVDF	Durability:	\sim 500'000 liters with clean	Consumption:	<8 mA
Turbine:	РК	Measuring accuracy:	water at max. flow (page 4) +/- 2.0% * + 0°C to + 60°C 32°F to 140°F	Signal connection:	Open collector, NPN
Magnete:	Ceramic Sr Fe O (in contact with medium)			Signal voltage:	0 VDC GND (saturation <0.7 V)
		Temperature range:			
		Pressure range:		Signal load:	max. 20 mA
			10 bar at 20°C 145 psi /68°F	Leakage current:	max. 10 μΑ
		Mounting position:	freely selectable Ø 3.0mm	Connection:	Cable UL2571, 3x AWG26 with 3-pin JST XHP-3 connector, 2.5mm pitch
		Nozzle size:			
		* Accuracy in the linear	range for individually calibrated	Signal:	Square-wave output
		equipment		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:

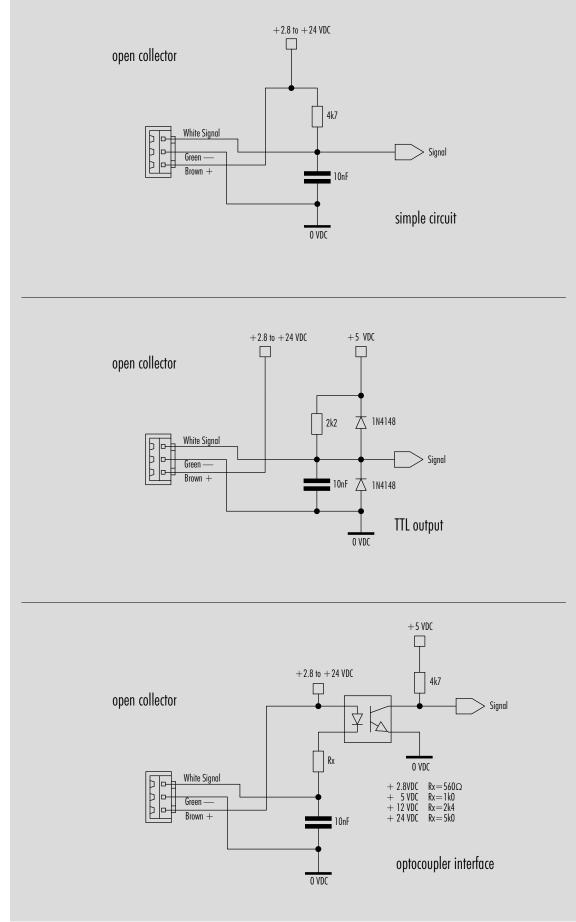
• The flow sensor does not supply an output voltage but switches the signal terminal to 0 V ground (actuated) or leaves it open (nonactuated)

•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

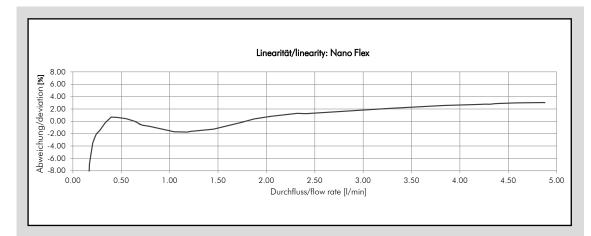


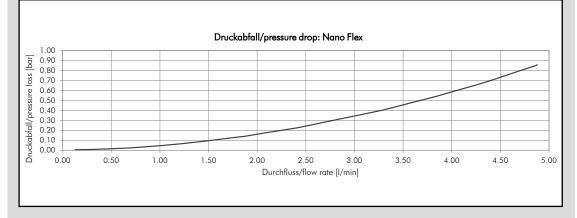
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Measurement Curve Nano Flex Ø3.0mm





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.

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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