

HiTECH

Technologies, Inc.

NIVOSWITCH RFP-400-1

INSTRUCTION MANUAL



***HiTECH* Technologies Inc.**

301 Oxford Valley Road
Yardley, PA 19067-7706

Tel: 215. 321. 6012 - Fax: 215. 321. 6067

Technical support: 800.755. 4507 or 888. NIVELCO

Email: info@hitechtech.com

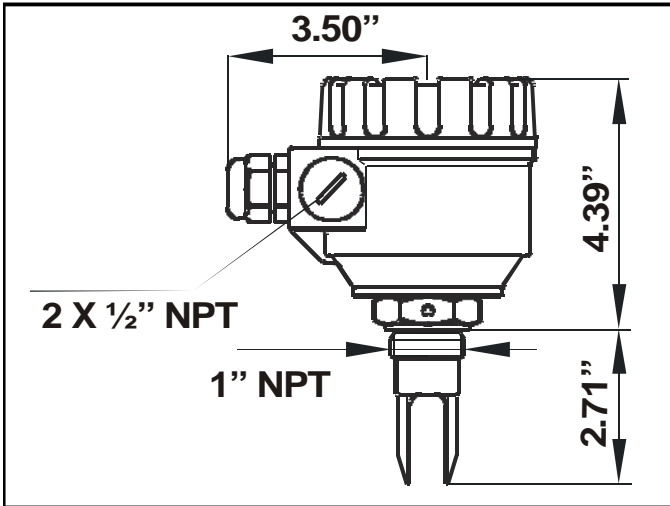
1. Operation

The **HiTECH/NIVELCO NivoSwitch™** is a mechanical resonance system; excited, and kept in resonance by electronic circuitry. When the level of the process liquid reaches the tines of the vibrating fork, it changes the vibration. This is sensed by the electronic circuit; which, after a time delay, actuates the output circuit. The **NivoSwitch™** handles a wide variety of industrial level detecting applications, including: overflow or run-dry protection and pump control.

2. Technical data

RFP-401	Relay Output
Housing material	Paint coated Aluminium (RF-400)
Selection of High/low fail safe	By switch
Density programming	By switch
Output	Up to 2 SPDT relay
Output rating	Relay 1: 250 V AC, 8 A, AC 1 Relay 2: 250 V AC, 6A, AC1
Electric connections (wire cross section)	2 x Pg 16 for Ø 8 to 15 mm cables (0.75 to 2.5 mm ²)
Supply voltage	20 to 255 V AC and 20 to .60 V DC
Consumption	AC: 1,2 ... 17 VA; DC: < 3 W
Electrical protection	Class I.
Mechanical protection	IP 67 (NEMA 6)
Weight (threaded versions)	1.3 kg + 1.2 kg/m

3. Dimensions

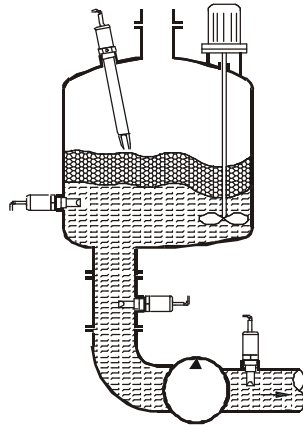


4. Installation

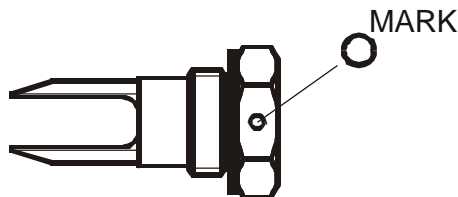
Before mounting the unit, adjust the sensitivity in a small sample of the material to be detected.

For positioning the tines use the marking on the hexagon neck.

- Use a TEFLON (PTFE) tape if fork tine positioning is required.
- Mount threaded versions with the provided sealing rings if fork tine positioning is not important.



Various mounting methods



Use the SW = 1.614" hexagon neck.

4. Installation (continued)

Low viscosity liquids

For applications with free flowing liquids, where the material does not adhere to fork tines, any of the mountings shown are acceptable.

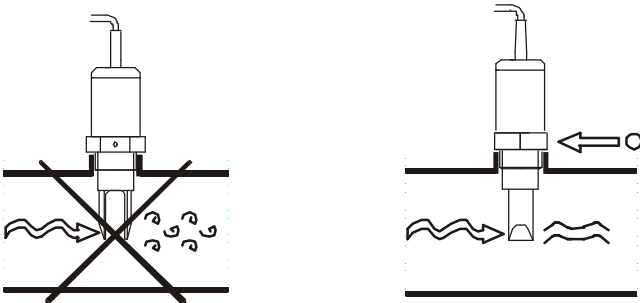
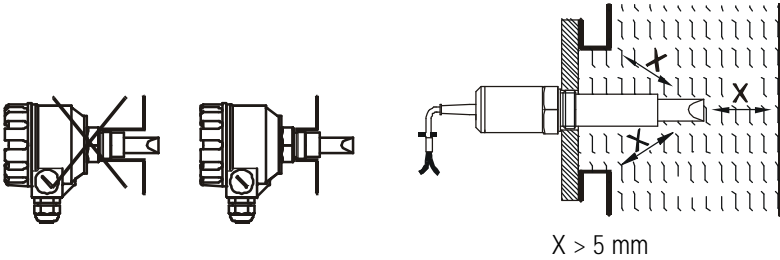
High viscosity liquids

For applications involving sticky materials, where the fork tines are not easily freed from the process material, only a vertical (top) mounting is recommended.

Side mounting

Only for applications where the fork tines are easily freed from the process material (look for the positioning marks).

Installation on liquids



For dry/wet detection, fork-tines must be parallel to the direction of flow

HiTECH

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A Technology for Every Level Application

CAPACITANCE
CONDUCTIVITY
CABLE RADAR
DIGITAL RF
ELECTRO-MECHANICAL
FLOATS
GAP SWITCH
GOOP-PROOF
HYDROSTATIC
LASER
MAGNETO-STRICTIVE
MICROWAVE
PPT™ - THROUGH THE WALL
PRESSURE
RADAR
RF - RADIO FREQUENCY
SONIC-LASER™
SUBMERSIBLE
ULTRASONIC
VIBRATION

**NO MATTER THE APPLICATION
WHEN IT COMES TO LEVEL CONTROL
HiTECH HAS YOUR SOLUTION**

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Toll Free: 800.755. 4507 or 866. DrLevel

Email: info@hitechtech.com

www.DrLevel.com or www.hitechtech.com