Vibrating fork level detector
NIVASWITCH

- **Detection of level for liquids**
- **Continuous monitoring**
- **Operating even with turbulences**
- **Unnecessary calibration routine**
- **Operating even with suspended solids**

APPLICATIONS

NIVASWITCH is a liquid level detector. It is mainly used for overfill protection, leak detection or dry run protection of pumps.

DESCRIPTION

NIVASWITCH is easy to use and can detect most liquids. It works independently of electric conductivity, clogging, turbulences, flow-rate and air bubbles. The trigger point depends of the immersion depth.

Robust and compact, NIVASWITCH may be mounted vertically or horizontally Easy to install, it does not require maintenance. Status of output is indicated by a bi-color (LED) and a function test is performed with a magnet

The alternative current output or digital output (NPN or PNP) can be connected to a PLC. As an option, the relays PKK (data-sheet 251-02) or LC1, allow to convert the output as a potential free contact signal.

TECHNICAL FEATURES

Insertion length	69 or 125 mm (from sealing surface)
Material	AISI 316 Ti
Fitting	1" BSP
Liquid temperature	-40 ... 130 °C (see the temperature limits diagrams)
Ambient temperature	-40 ... 70 °C (see the temperature limits diagrams)
Liquid pressure	Max. 40 barg (See the diagram: pressure vs. temperature)
Liquid S.G.	≥ 0.7
Viscosity	≤ 10,000 mm²/s (cSt)
Supply / Output (2 versions)	or 12 ... 55 V DC / DC, 3-wire, PNP or NPN or 20 ... 255 V AC / AC, 2-wire
Consumption	AC: Depending on connected load / DC: < 0.6 W
Electrical connections	DIN Connector
Electrical protection	AC version: Classe I / DC version: Classe III
IP Protection	IP 65
Mass	0.5 kg

EC Conformity: The instrument meets the legal requirements of the current European Directives
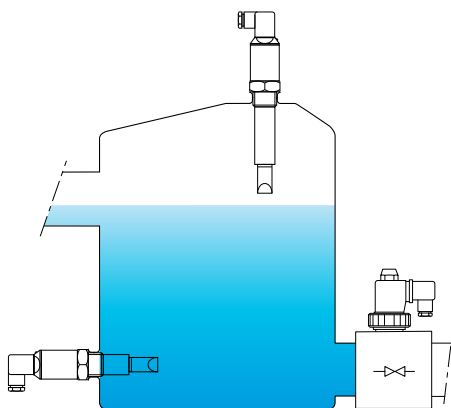
Examples of use

CITEC
Pression - Température

8 Av. du Gué Langlois · 77600 Bussy-Saint-Martin
Tel   +33 (0)1 60 37 45 00   Web   www.citec.fr
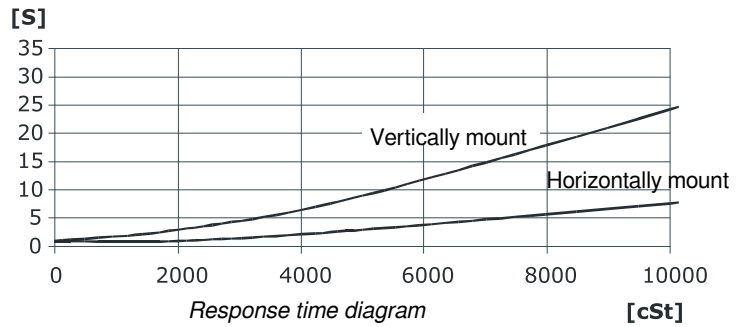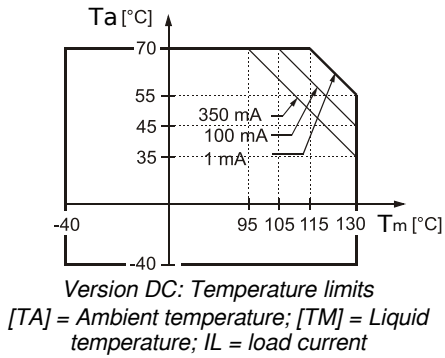E-mail   citec@citec.fr

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DIAGRAMS

Pressure vs. temperature

Version AC: Temperature limits
[TA] = Ambient temperature; [TM] = Liquid temperature

Version DC: Temperature limits
[TA] = Ambient temperature; [TM] = Liquid temperature; IL = load current

Response time diagram
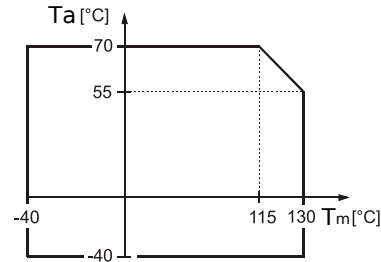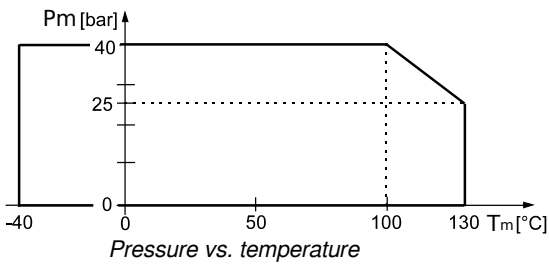
CODE NUMBERS AND REFERENCES

Code	Reference	Rod length	Power supply	Ouput
513 300	CM69AC	69 mm	0...255 V AC	AC, 2-wire
513 303	CM69DC	69 mm	2...55 V DC	3-wire, NPN or PNP
513 350	CM125AC	125 mm	0...255 V AC	AC, 2-wire
513 353	CM125DC	125 mm	2...55 V DC	3-wire, NPN or PNP
Accessories				
251 250	LC1	Relay, 230 V AC for Nivaswitch AC		

DIMENSIONS

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                      E-mail   citec@citec.fr

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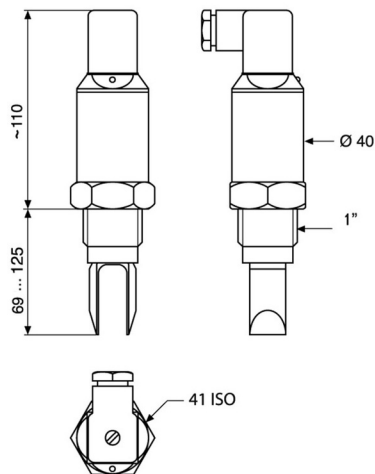
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Non-contractual document: Subject to amendments due to improvements