



02/ OILSPY Standard

Floating Hydrocarbons Detector

ATEX: explosion proof and intrinsically safe



OILSPY is a hydrocarbons detector designed to generate an alarm in presence of accidental pollution.

OILSPY detects floating hydrocarbons thanks to a polymer membrane that is held in tension between an upper moving axis and a lower fixed axis.

When in contact with hydrocarbons, the membrane dissolves, releasing the upper moving axis. This axis activates a contact relay mounted on the electronic board inside the **OILSPY**.

The “all or nothing” contact (dry contact) is opened, the current loop passing through the detector is opened and this triggers an alarm. This alarm is then transmitted by electric cable or radio to either a standard **OILSPY** Alarm Station (see sheet n° 09) or directly to the end user’s control system.

Specifications

Mass	:	910 g
Material	:	Cast aluminum
Protection	:	IP68
Ambiant T°	:	-20°C à +60°C


Alarm transmission's modes


Wired:

Ref. 1606b: *OILSPY ATEX wired*

Wireless:

Different solutions exist; please contact us for more information

Certifications : **INERIS 03ATEX0184**
 II2G Ex d IIC T6 Gb

INERIS 03ATEX0184
 II2G Ex ib IIC T4 Gb

OILSPY Standard wired (1606b)

Intrinsically safe version (IS)

To use only with a certified type of equipment, whose the output circuit is recognized intrinsically safe for IIC explosive atmospheres group.

The association must check safe's rules according to following parameters:

Max input characteristics:

$U_i = 30 \text{ V}$; $I_i = 100 \text{ mA}$; $P_i = 1,2 \text{ W}$

Max exposed characteristics:

$C_i = 0 \text{ F}$; $L_i = 0 \text{ H}$

Cable length: fixed according of associate equipment's characteristics

Explosion proof version

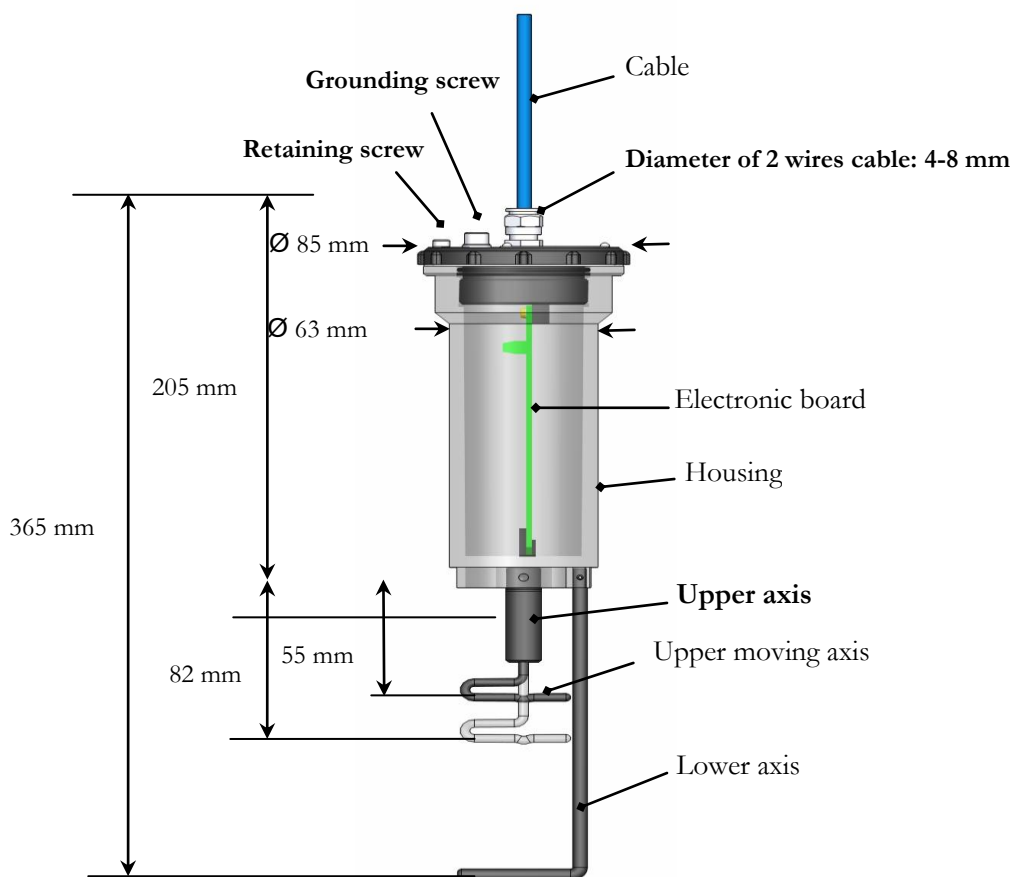
Switchable power handling: 1W

Max. Tension accepted: 100V

Max. Current accepted: 250mA

Electrical connection: by a gland on screw terminal

Cable length: up to 1000 meters



Accessories and options

- Membrane protector (ref. 18361a)
- Membrane protector with skirt (ref.20420)
- Gland connection for armored cable
- Alarm station (ref. 1645)

Installation support

- Slide sheet n° 07
- River and basin buoy sheet n° 06
- Varinivo (tube 4") sheet n° 08

Other version

- OILSPY Piezo (for groundwater table applications or confined places)

sheet n° 03