

## Oil Film Swimmer **SYNVA2.0**

To detect an **Oil film from 2,0mm** in the cooling water circuit or an drainage basin safety oil spill alarm with the Oil Film Swimmer **SYNVA2.0**



The Oil-Film Swimmer **SYNVA2.0** reliably detects an occurring oil film from as little as 2mm via RF impedance sensors! Because any low dielectric constant (e.g. DK value 2.5) in the immediate vicinity of the swimmer leads directly to a sharply falling capacitance field in the water, so that the relay alarm is activated immediately.

The float sensor is also used in cooling water circuits or rainwater tanks, in which there is normally no oil. Due to the stable design, the sensor is guaranteed to float on the water surface. This always ensures that an alarm is given immediately if oil accumulates.!

### You can request it as a MINI - with a diameter of 287mm

#### Features and benefits

- an alarm signal sounds when there is a 2 mm oil film on the water. In reality it can be also sensitized so that only an alarm sounds if there is reached an oil film up to 25 mm.

dry bassin?

**SYNVA2.0** makes an additional alarm if there is only air-atmosphere instead of water

- The stable triple float design follows every level change even under rough conditions with waves
- the RF impedance sensor also reacts to any organic liquids with a dielectric constant similar to oil
- **SYNVA2.0** is available to use it intrinsically safe for hazardous areas

#### SCOPE OF DELIVERY:

- Triple stainless steel float (with PVC housing), 30m control line
- Control Unit 02852-HCF in sheet steel housing
- for installation in the non hazardous areas

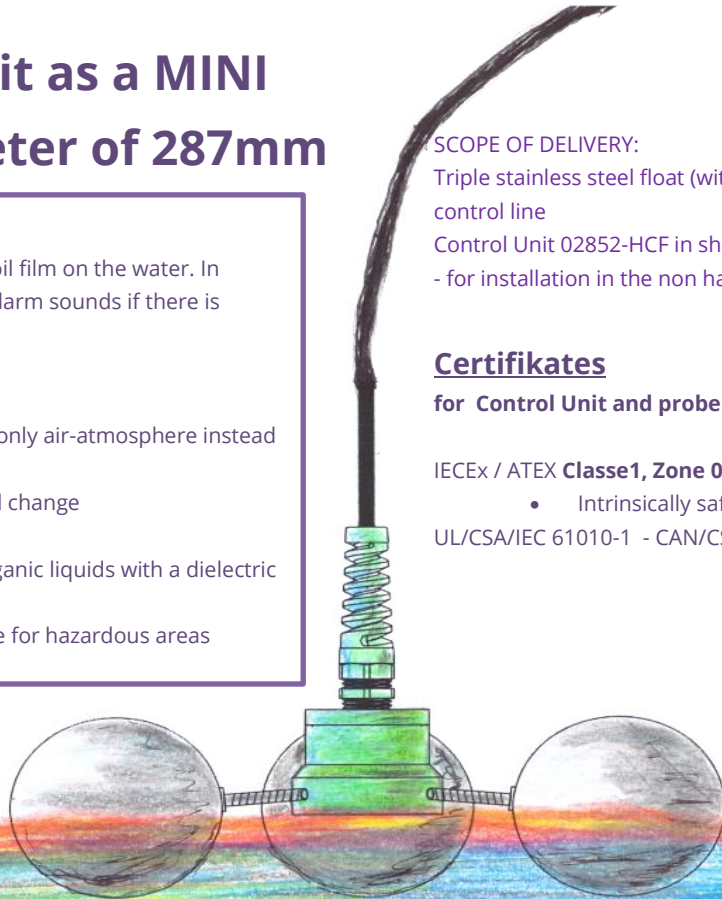
#### Certifikates

for Control Unit and probe

IECEX / ATEX **Classe1, Zone 0,1,2; Ex ia IIC T4Ga**

- Intrinsically safe

UL/CSA/IEC 61010-1 - CAN/CSA 22.2



**Your Inquiry** - floating rod probe for an interface level down to 300mm



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The unique Oil Film Swimmer **SYNVA2.0** with the control unit 02852 continuously monitors the accumulation of oil on the water surface - due to the stable design even under the most difficult conditions (e.g. waves).  
With SYNVA you benefit from proven measurement technology!

### Technical Details of the Control Unit

Measuring : **RF-Impedance** (capacitive)  
 Operating temperatures min. -20° C , max. 55° C  
 Response from 0.04 pF to 3,000 pF  
 Deviation 0.2% of the end value pF  
 2 relay`s NO / NC contacts  
 adjustable sensitivity (pF) vs. attac  
 adjustable time delay (0-600sec.)

signal output  
 • 4mA (normal condition)  
 • 20mA (oil film ALARM)  
 • DRY ALARM

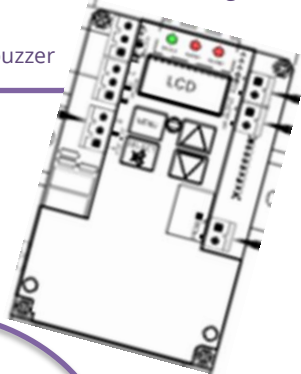
Installation only in no hazardous areas  
 • on DIN rail or in an extra sheet steel housing (IP66)

Options: alarm light, buzzer

### Your special inquiry

NOW we have the **MINI** with a **diameter of 287mm**

**OPTIONAL** with **trident** for a limited swimming style



**1km**

