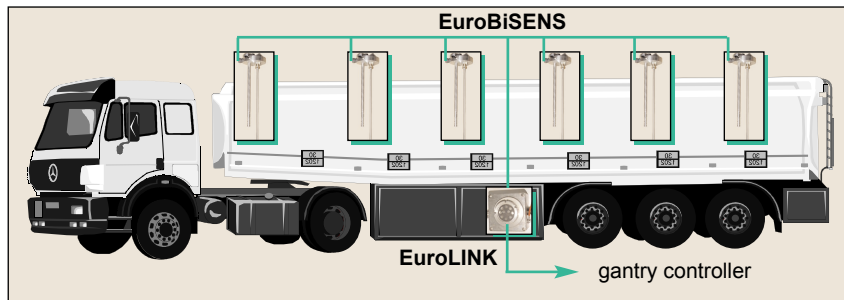


# Overfill Protection System to VOC guideline and TRbF



A fail safe Overfill Prevention System to European Norm EN 13922 is required on all bottom loaded tank trucks since the VOC – guideline 94/63/EG has become national law in all European countries.

This enables tank trucks to load at any depot since all other required interfaces are standardised.



TKW with EuroBiSENS and EuroLINK

The Overfill Prevention System requires a gantry controller to European Norm EN 13922 controlling both 2-wire and 5-wire optic sensors. A 10 pin plug connects to the **EuroLINK** socket installed on the tanker. Each tanker compartment is to be equipped with a **EuroSENS** or **EuroBiSENS**.



EuroSENS to EN 13922

## EuroSENS

This is the standard optic sensor to EN 13922 to be installed in each tanker compartment.

The fail safe optic sensor prevents compartment overfilling.

**As the sensors are to be installed in series as shown on the approved installation diagram the gantry will stop bottom loading when any sensor becomes wet.**

For ultimate safety, it is required to lower the product level in the overfilled compartment before loading can recommence.

Accurate pre-setting in combination with wet leg sensors prevents such a situation.

## EuroBiSENS

The **EuroBiSENS** combines both the **optic EuroSENS** and the **pneumatic high level sensor PNS** to TRbF which is required for bottom loading on depots without gantry controller or for self loading.

When specifying the EuroBiSENS, pressure balanced foot valves or line valves are required for each compartment.



EuroBiSENS

# Overfill Protection System to VOC guideline and TRbF



Tankers equipped with **EuroBiSENS** can load at **depots equipped with gantry controllers** as required by the VOC- guideline and **depots without gantry controller**.

The approved **EuroBiSENS** with its optic sensor to EN 13922 meets the VOC requirements and with its pneumatic sensor the requirements of TRbF 141, No. 4.2 for **self loading** (on-board overfill prevention in conjunction with pressure balanced foot valve).

## Safety

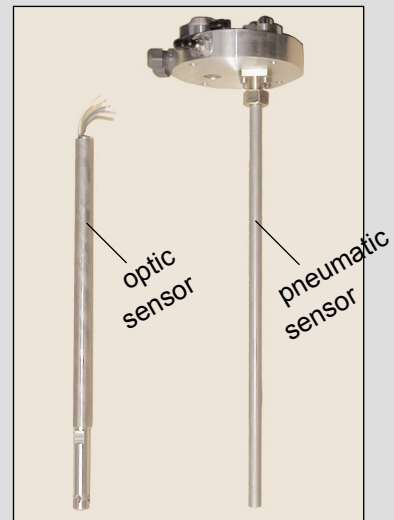
As required by the VOC-guideline **Optic Sensors** must be **fail safe** and conform to EN 13922. This assures that any fault in the overfill prevention system will prevent a permissive signal and/or interrupt bottom loading operation.

**Pneumatic Sensors** to TRbF 141 or 510 provide a **positive safety** and are approved for **Zone 0** installation.

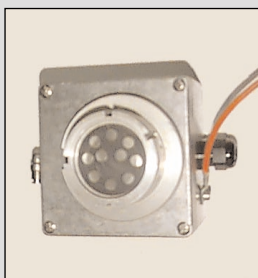
## Retrofitting

The **EuroBiSENS** can be supplied without optic sensor for bottom loading at non VOC depots and for self loading.

**Retrofitting** with optic sensor **is possible at any later time** as required.



EuroBiSENS



EuroLINK socket

The **EuroLINK** is the tanker mounted socket for connection of the gantry controller.

It may be equipped with a pneumatic pressure switch which is activated by the interlock switch of the vapour recovery adapter.

This assures that a permissive signal can only be generated if the vapour recovery hose is connected.

The interlock function may be used also for wet-leg sensor systems which allows loading only when all compartments are empty.



Vapour Recovery Adapter  
CAMV with interlock

***EuroBiSENS, the fail-safe overfill prevention system, approved to meet all your bottom loading and self loading requirements.***