



*Liquid level limit switch  
with note of approval*

*To protect all types of storage tanks  
by alarm or automatic filling stop*



### Safe filling of storage tanks:

In order to avoid damages caused by overflowing hazardous liquids, the German legislation authority demands to use overfill safety devices. Overfill safety devices are instruments which timely trigger alarm as soon as the admissible filling level inside the tank is being reached.

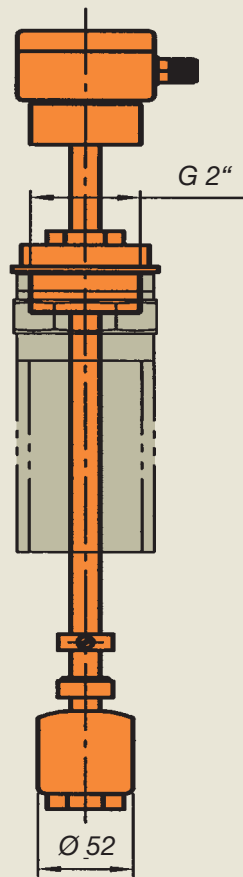
### Overfill safety device with note of approval:

As overfill safety devices are considered as technical protection instruments in respect of the WHG (Federal German Water Act) and VawS (Order on the storage, filling, transfer of hazardous media) which dependably prevent overfilling of storage tanks for hazardous liquids, they are subject to official authorisation. As overfill protections all those components are to be understood that will interrupt the filling process or triggering alarm.

### Design, function and evaluation of the overfill safety alarm:

It consists of the level sensor installed inside the storage tank and the alarm unit with transducer which is usually fitted nearby the filling coupling.

The raising liquid level lifts the ring float and when the preset contact point is reached, the Reed contacts will open.



At the exit the transducer releases a binary signal which is directly given to the alarm unit and this one will trigger acoustical and optical alarm (horn to be reset/pilot lamp).

Since the overfill safety device works on the closed circuit current principle, it also gives warning of disconnection and supply voltage breakdown.

The transducers are designed to be installed in a central control system. It is a complete alarm

system, the optical-acoustic alarm transmitter is available for the evaluation for one (OAA-1) or two (OAA2) level sensors. So it is possible to evaluate the overfill alarm and the leakage alarm at same time.

### Features and advantages of the overfill safety alarm:

All components of the overfill safety alarm which will get into touch with the storage media are made of chemical-resistant materials as PE, PP and PVC. However, be aware that the level sensor is sensible against highly viscose or gluey fluids.

### Periodical checks by the operator:

The operation of the overfill safety alarm has to be checked in periodical intervals, at least once a year.

### Technical data:

Level sensor:

Connection: male thread G 2"

Protection

type: IP 65

Measuring transducer:

Nominal

voltage 230 V AC

on request: 24 V DC

Exit contact: 2 x changeover

contacts

### Option:

Explosion-protected version on request

Subject to technical alterations

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