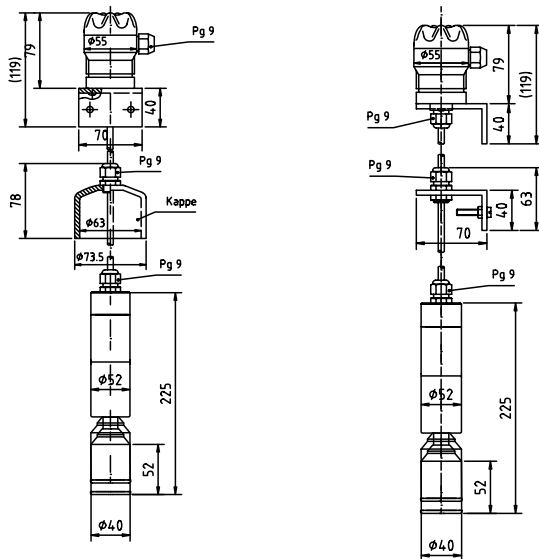
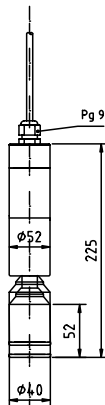


# Leakage sensor **MAXIMAT LW VK**



MAXIMAT LW – VK D

MAXIMAT LW –VK K



MAXIMAT LW –VK O

## Safety Precautions

- Installation, initial start-up and maintenance may only be performed by trained personnel! All applicable European and national regulations regarding installation of electrical equipment must be adhered to.
- The device must be disconnected from all sources of power during installation and maintenance work!
- The device may only be operated under the conditions specified in the operating instructions!
- **Connect the device to the MAXIMAT SHR C measuring transducer only** (see operating instructions **SU0133** to this end)!

## Functions Description

In combination with the MAXIMAT SHR C measuring transducer, the MAXIMAT LW VK is used as leakage sensor for permanently installed containers used for the storage of non-flammable, water endangering liquids. It is equipped with a self-monitoring measuring circuit in combination with the MAXIMAT SHR C measuring transducer using 2-wire connection.

## Technical Data

Terminal housing:	PBT, fibre-glass reinforced
Degree of protection per EN 60 529:	IP 65
Process connection:	PVC-Cap d63 or fixing angle with Pg9-cable gland
Materials:	PVC, PP or PE
Sensor cable	TPK 2x0,5 mm <sup>2</sup>
Liquid medium density:	min. 0.7 g/cbm
Operating temperature:	-20 to +60° C
Operating pressure:	atmospheric, 0.8 to 1.1 bar
Switching point:	
Repetition accuracy:	approx. 2 mm
<b>Measuring Circuit</b>	
Ready to operate:	> 18 to 40 mA
Overfill alarm:	> 10 to 18 mA
Broken cable:	< 7 mA
Short-circuit:	> 39 to 110 mA
Measuring voltage:	approx. 12 V DC

## Range of Applications

In combination with the MAXIMAT SHR C measuring transducer, the MAXIMAT LW-VK leakage sensor is suitable for use with liquids with a density of greater than 0.7 grams per cubic centimetre.

## CE Mark

In accordance with low-voltage directive (73/23/EWG) and EMC directive (89/336/EWG)

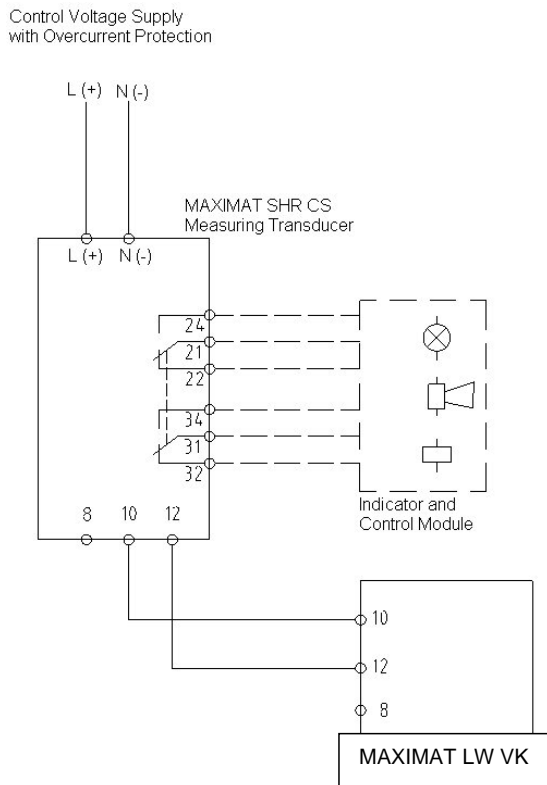
## DIBT Approval

Approval no. **Z-65.40-272** for overfill inhibitors and leakage sensors in accordance with WHG §19

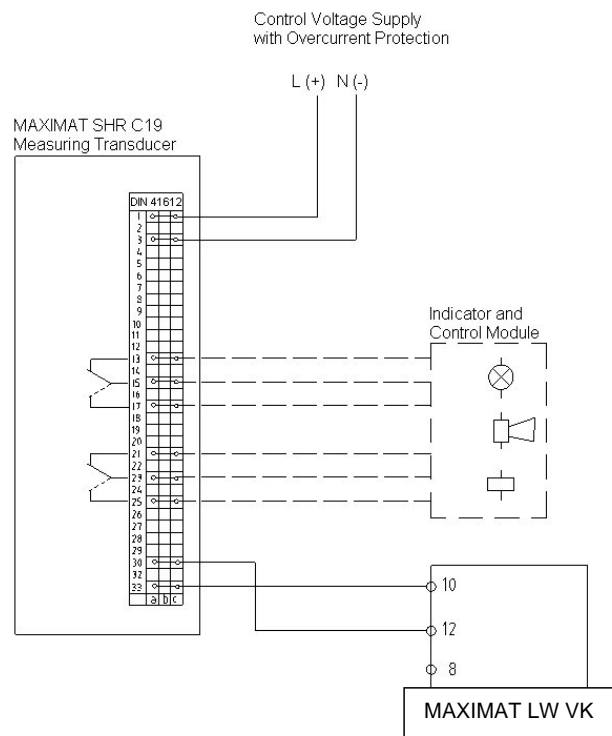
## Note:

The accompanying "General Building Supervisory Approval no. **Z-65.40-272**" is an integral part of the operating instructions, and all stipulations contained therein must be adhered to!

## Electrical connection:



### Connection to MAXIMAT SHR CS... measuring transducer



### Connection to MAXIMAT SHR C19... measuring transducer

Use a 2-conductor control cable to connect the leakage sensor to the measuring transducer.

Minimum cross-sections:

to 50 m	0.5 square mm
to 100 m	0.75 square mm
to 250 m	1 square mm
to 500 m	1.5 square mm

## Mechanical Installation of the Leakage Sensor

- Installation to storage tank catch basins
- The probe may make contact with the outside wall, or may stand on the floor.
- Secure the cable such that the probe always stands or hangs vertically.
- Maximum allowable distance from the floor is 5 mm for hanging installation.

## Periodic Testing

The leakage probe must be tested for correct functioning at reasonable intervals, no less than once a year. It is the sole responsibility of the user to select the utilised test type, as well as a testing interval within the prescribed timeframe.

The accompanying "General Building Supervisory Approval no. **Z-65.40-272**" is an integral part of the operating instructions and all stipulations contained therein must be adhered to!

### Observe:

In case of a leakage immediately remove the leakage sensor out of the catch basin.

A long lasting submerge is not allowed.

Clean the leakage sensor before re-mounting.