

MAXIMAT C... Compact Overfill Sensor with connection for test push button



MAXIMAT[®] C
with adjustable G2" process connection

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 may only be connected to supply power which complies with the specifications included in the technical data!
- 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!

Applications:

The MAXIMAT C... compact overfill sensor is suitable for conductive liquids
Stored liquids may not tend to precipitate insulating or conductive sediments.

Technical Data

Ambient temperature:

-20 to +60 °C

Operating pressure:

atmospheric, 0.8 to 1.1 bar

Terminal housing:

PBT, fiber glass reinforced, IP 65 acc.
EN 60 529

Process connection:

see type key

Supply power:

15 ... 26 V DC

Power consumption:

approx. 3 W

Outputs:

- Binary output: +DO / -DO
max. 20 mA , optocoupler
- Current output: +AO / -AO
0 ... 20 mA , optocoupler
- Output for **MAXIMAT SHR C...** measuring transducer:

Terminals:

screw connectors, IP 20
max. wire cross-section 2.5 mm²

Optional:

Connection external test button:
Terminal **T** and terminal **0V**
if contact closed = overfill alarm

Effect:

Operation test of the complete MAXIMAT C electronic,
the plant cabling and the control/alarm indication unit.

CE mark

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

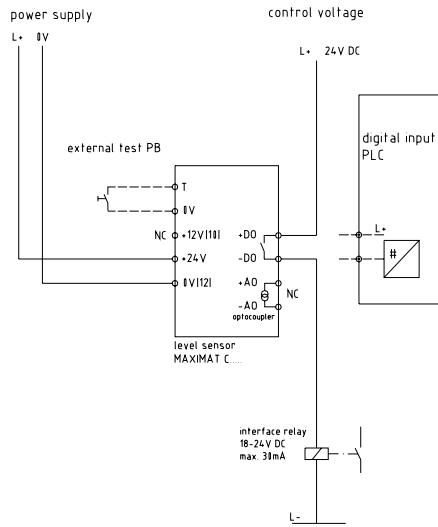
DIBT Approval

Approval no. **Z-65.13-294** for overfill sensors and
leakage sensors in accordance with WHG §19

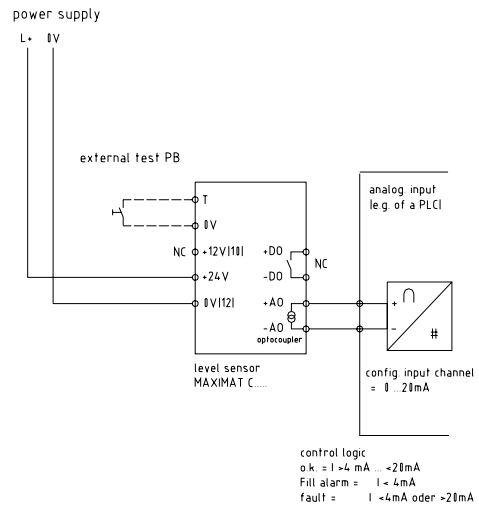
Note:

The accompanying "General Building Supervisory
Approval no. Z-65.13-294" is an integral part of the
operating instructions and all stipulations contained
therein must be adhered to!

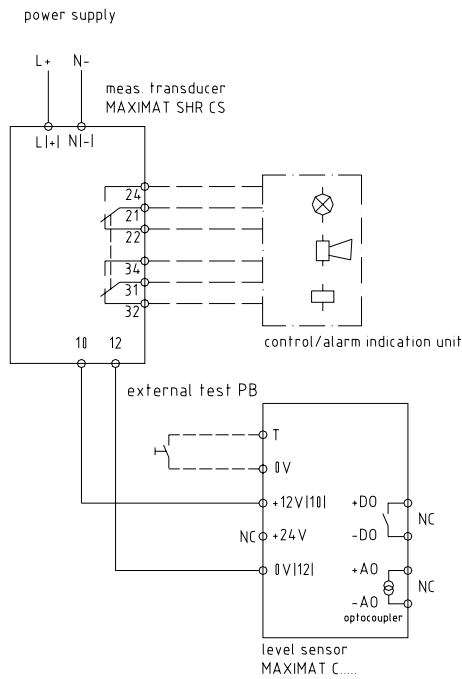
EI. Anschluss / Connection Diagram:



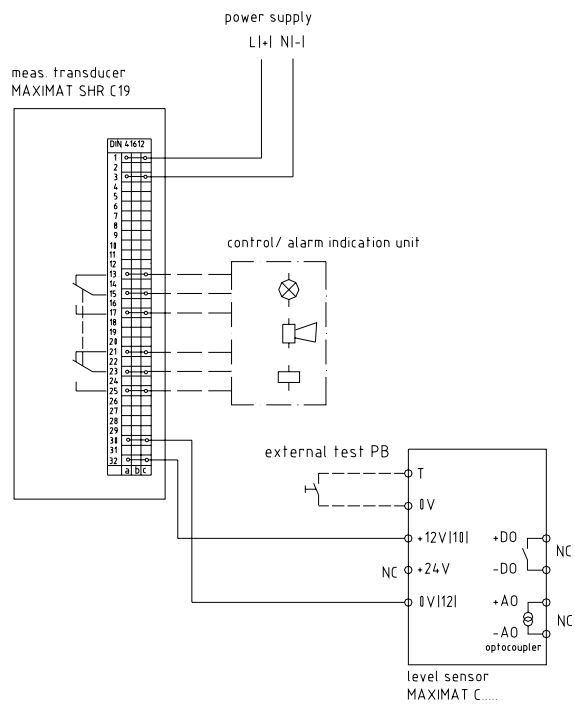
MAXIMAT C..., Binary Output to Coupling Relay / PLC



MAXIMAT C..., Current Output to PLC Analogue Input



MAXIMAT C... to MAXIMAT SHR CS Measuring Transducer



MAXIMAT C... to MAXIMAT SHR C19 Measuring Transducer

*) Observe: The function test with the external push button does not replace the annual operation test, which is specified in the DIBt-ZG-ÜS Chapter 6.2.

Test Instructions

MAXIMAT Overfill Inhibitors and Leakage Probes, and CAPSYTRON Limit Value Switches

Overfill sensors

Leakage probe

Safety probe

Fill-level limit value switch

MAXIMAT C...
 MAXIMAT SUN...
 MAXIMAT LW CN-SDR
 CAPSYTRON SFL...
 CAPSYTRON CN L...

Measuring Method

The measuring sensors function in accordance with the capacitive proximity switch principle. The measuring method is based upon making a differentiation between the electrical capacitance of a conductive and a non-conductive medium with reference to earth, in this case between an electrically conductive liquid and the non-conductive atmosphere above the liquid's fill-level.

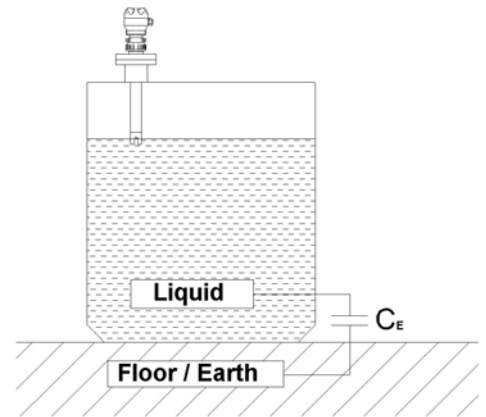
Range of Applications

The measuring sensors are suitable for liquids with a reactive impedance of less than 5 kΩ per cm, or a coupling capacitance to earth of greater than 50 pF. Stored liquids may not tend to precipitate insulating or conductive sediments.

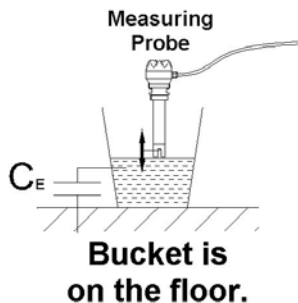
Periodic Testing per WHG §19

The measuring probes must be tested for correct functioning at reasonable intervals, and in any case 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. Observe the instructions included in the pamphlet "General Building Supervisory Approval", a copy of which is provided with every measuring probe which requires approval!

Function Test: Before Installation and Initial Start-Up, and During Inspection

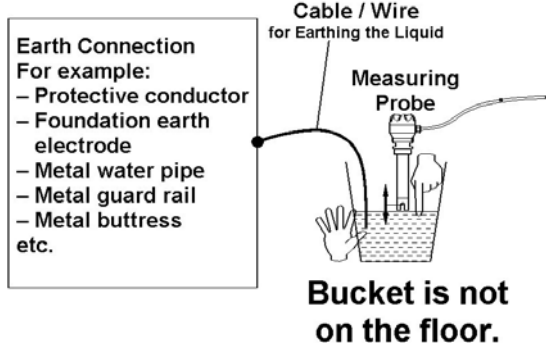


Method 1



- Fill a bucket (plastic or metal) with original liquid or water (at least 5 litres) and set it onto the floor.
- Immerse and remove the measuring probe several times.
- Examine the switching status of the measuring circuit (refer to the respective operating instructions to this end).

Method 2



Earth Connection
 For example:
 – Protective conductor
 – Foundation earth electrode
 – Metal water pipe
 – Metal guard rail
 – Metal buttress
 etc.

- Fill a bucket (plastic or metal) with original liquid or water (at least 5 litres).
- Earth the liquid in the bucket with a cable/wire.
or
 Grasp the bucket with your hand from the outside.
or
 Immerse a finger into the liquid.
- At the same time, immerse and remove the measuring probe several times.
- Examine the switching status of the measuring circuit (refer to the respective operating instructions to this end).