

## MAXIMAT C20... Compact Overfill Sensor with connection for test push button



MAXIMAT C20 N



MAXIMAT C20 V (adjustable)

### 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!

### Functions Description

The MAXIMAT C20 is used for overfill detection in tanks

It is equipped with three different output circuits:

- Binary output for controlling a coupling relay
- 0 to 20 mA current output for controlling an analogue input channel, e.g. a programmed logic controller (PLC)
- Self-monitoring measuring circuit in combination with the MAXIMAT SHR C measuring transducer with 2-wire connection

### Applications:

The MAXIMAT C20... compact overfill sensor is suitable for conductive liquids

### 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. 30 mA  
Input voltage: 24 VDC,  
Output-Voltage: approx. 18 VDC  
(coupling relay KRC recommended)
- Current output: +AO / - AO, 0 ... 20 mA
- Output for MAXIMAT SHR C..

**(Observe: use only one output channel at the same time)**

#### Terminals:

screw connectors, IP 20  
max. wire cross-section 2.5 mm<sup>2</sup>

#### 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 (2006/95/EG) and EMC directives (89/336/EWG)

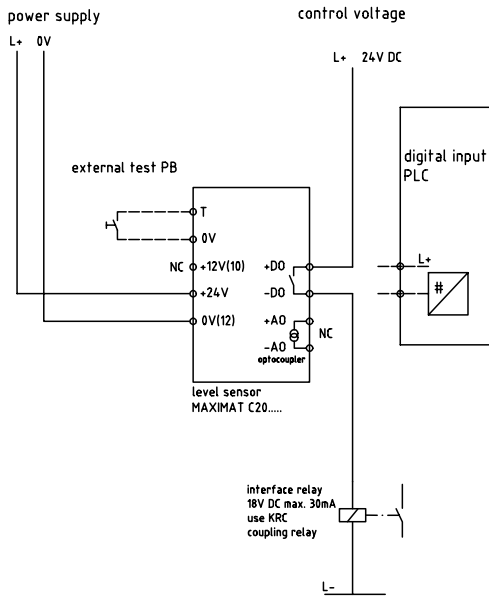
### DIBT Approval

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

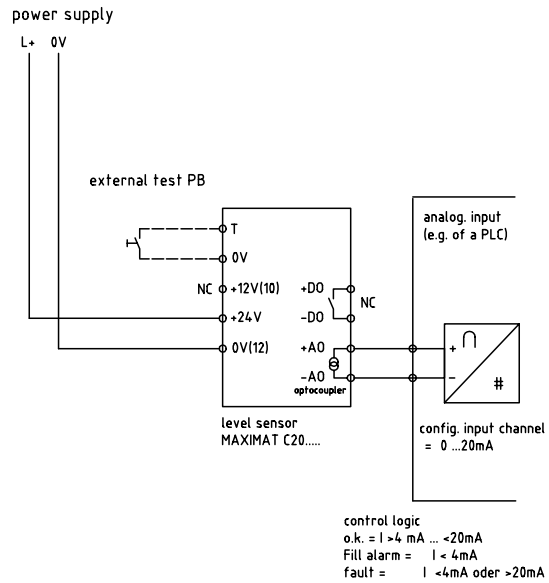
#### Note:

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!

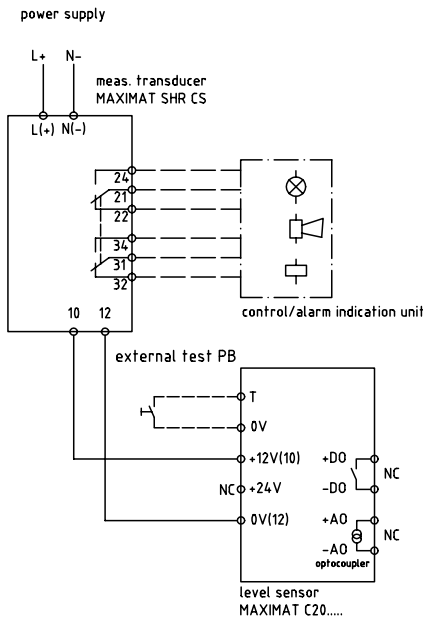
**Connection Diagram:**



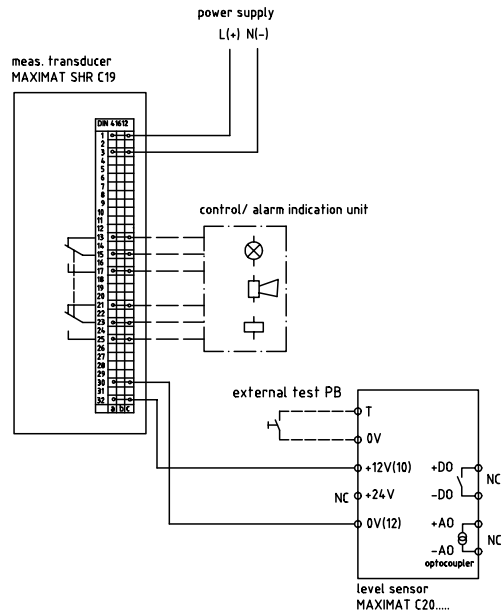
**MAXIMAT C20..., Binary Output to Coupling Relay / PLC**



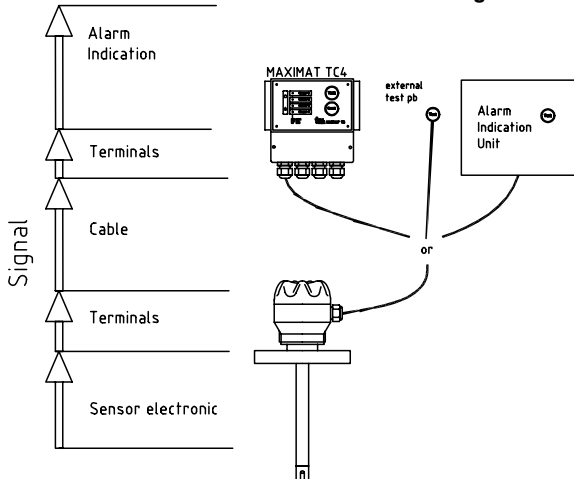
**MAXIMAT C20..., Current Output to PLC Analogue Input**



**MAXIMAT C20... to MAXIMAT SHR CS Measuring Transducer**



**MAXIMAT C20... to MAXIMAT SHR C19 Measuring Transducer**



**Test of the complete signaling**

\*) 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.