

# Overfill detector MAXITOP

## CAUTION

Only trained personnel may perform installation, initial start-up and maintenance. All applicable European and local directives regarding installation of electrical equipment must be respected.

- The instrument must be connected (and only) to a power supply conforming to the characteristics indicated on the identification plate of the instrument.
- The instrument must be disconnected from all sources of power during installation and maintenance work.
- The instrument must be operated under the specified conditions of use.

## DESCRIPTION

The compact probe MAXITOP is used as a permanent detector of overfilling on containers that store liquids, non-flammable, pollutants for water.

The standard MAXITOP offers 4 types of electrical connections

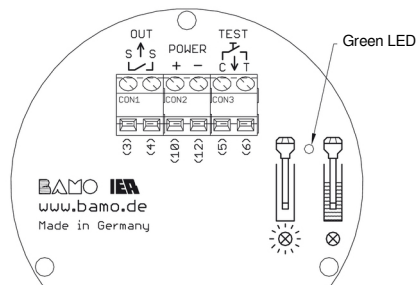
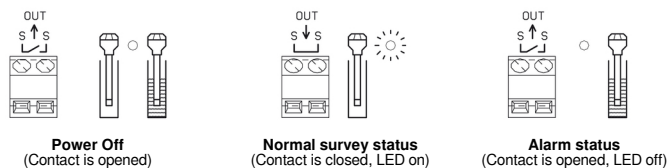
- Relay output with a CST
- Relay output, active safety function with a SHR
- Direct connection to a PLC
- Direct connection to alarming units TC4 and TC1

## CE conformity:

The instrument meets the legal requirements of the current European Directives.

## TECHNICAL FEATURES

Main power supply	15...27 V DC
Power consumption	< 1 W
Ambient temperature	-20...+60 °C
Operating pressure	atmospheric (0.8 to 1.1 bar)
Probe body	PEHD
Process connection	2" G, PVC, sliding fitting
Head housing	PBT, fibre glass reinforced, IP 65 acc. EN 60 529
Terminals	Screw connectors, max. wire cross-section 2.5 mm <sup>2</sup>
Input	Port for an external switch for system test (connection to terminals T and C) Closing the test switch simulates an alarm
Output	Reed contact, potential free, for low voltage, max. 50 V AC/DC, max. 0.5 A, max. 10 VA
Signaling information	Green LED inside the head housing; Lighting = system is correct; Off = or alarm status or Error system



PCB inside the head housing

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Overfill detector  
**MAXITOP**

19-06-2019

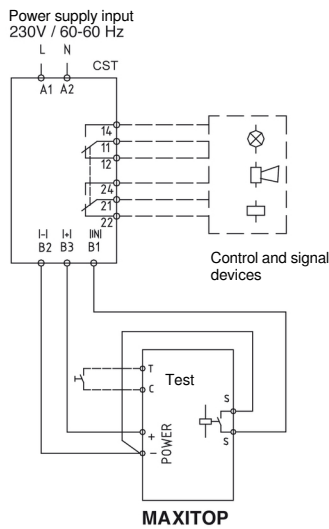
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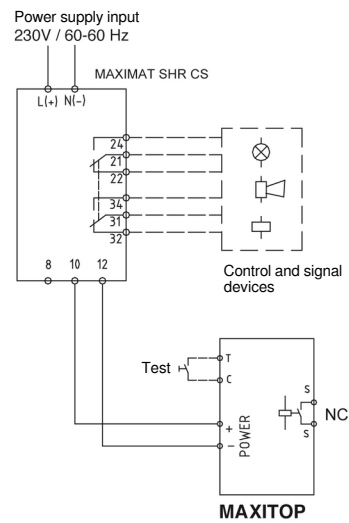
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## WIRING POSSIBILITIES

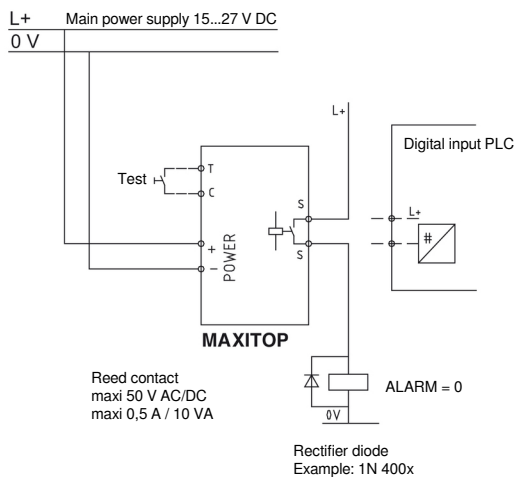
### Connecting to a CST relay



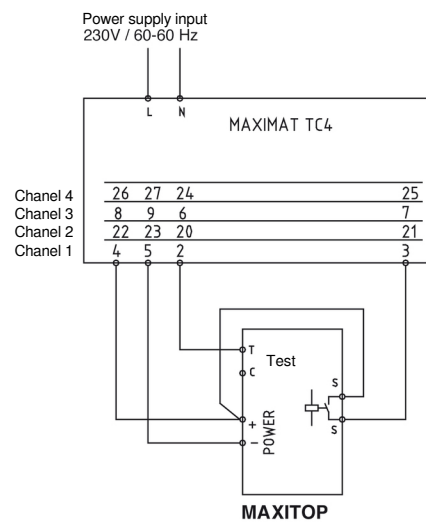
### Connecting to a SHR CS



### Using built-in Reed contact or connecting a PLC



### Connecting to a TC4 unit



## TEST INSTRUCTIONS

### Range of system detection

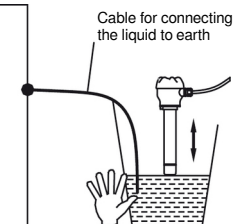
MAXITOP sensors are suitable to liquids for which reactive impedance is less than 5 kOhm or a mutual capacitance to earth of greater than 50 pF. Stored liquids must not create insulating precipitates or generate conductive sediments.

### Test method:

- Fill in a bucket (plastic or metal) with 5 litres of stored liquid.
- Connect the liquid to earth with a cable.
- Or, keep the bucket firmly in your hands.
- Or, plunge a finger into the liquid (if there is no risk).
- At the same time, soak the probe several times.
- Check the switching status (refer to the LED status).

### Earth connection, example:

- Shield cable protection
  - Single core earthing cable
  - Metallic pipe
  - Metallic guard rail
  - Metallic structure
- etc.



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## MAN

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