OPERATING INSTRUCTIONS
MAXIMAT CX OVERFILL SENSOR

Safety Precautions

- Installation, initial start-up and maintenance may only be performed by trained personnel!
- The device may only be connected to power which complies with the specifications included in the technical data and on the serial plate!
- 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 these operating instructions!

Functions Description

The MAXIMAT CX compact overfill sensor is used as a fill-level limit switch for permanently installed containers for the storage of non-flammable, water endangering liquids.

Applications

The fill-level sensor is suitable for liquids with an impedance of less than 5kΩ, or a mutual capacitance to earth of greater than 50pF. Stored liquids may not tend to precipitate insulating or conductive sediments.

Technical Data

Functional principal:	Capacitive high-frequency, fail-safe
Ambient temperature:	-20 to +60°C
Operating pressure:	Atmospheric, 0.8 to 1.1bar
Terminal housing:	PBT, IP65 protection per EN 60 529
Process connection:	See order information
Supply power:	15 to 27V DC
Power consumption:	<1W

Technical Data (continued):

Outputs:

- **Floating reed relay contact** (contact opens in case of alarm)
  for extra-low voltage, max. 50V AC / DC, max. 0.5A, max. 10VA
  e.g. for operating coupling relays or PLC, TC4 signalling device or CST supply power isolator
  Observe protective measures for reed relay contacts (see instruction leaflet SU3104)

- **2-wire alarm evaluation** with MAXIMAT SHR C measuring transducer
  Note: Simultaneous use of both outputs is not possible.

Terminals: Screw terminal for wire cross-sections of up to 2.5mm²
Input: For external test button *(connection to terminals T and C)*
Test button contact closed = test alarm is triggered

Note: The function test executed with the test button does not replace the operating test specified in ZG-ÜS, section 6.2, which must be conducted for all probes on a regular basis at least once a year.

Indication:
LED (green) on the connector PCB (variant KL only):
- Run: LED illuminated
- Alarm / error: LED off

Measuring circuit cable length:
Max. 300m, min. wire cross-section: 0.5mm²

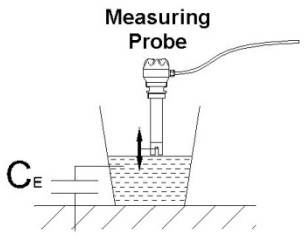
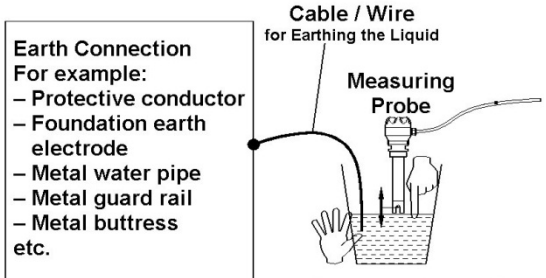
CE Mark

In accordance with low-voltage directive RL 2006/95/EC and EMC directive 2004/108/EC

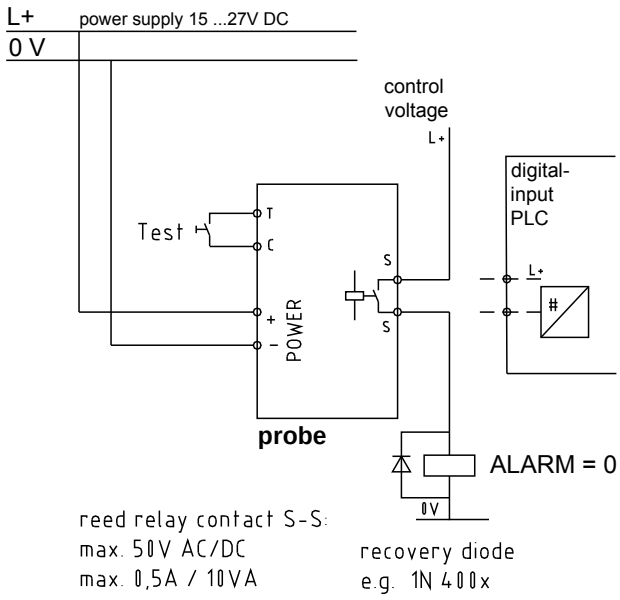
DIBT Approval

Approval no. **Z-65.13.494** for overfill inhibitors and leakage sensors in accordance with WHG §19
Note: The accompanying "General Building Supervisory Approval no. Z-65.13.494" is an integral part of the operating instructions and all stipulations contained therein must be adhered to!

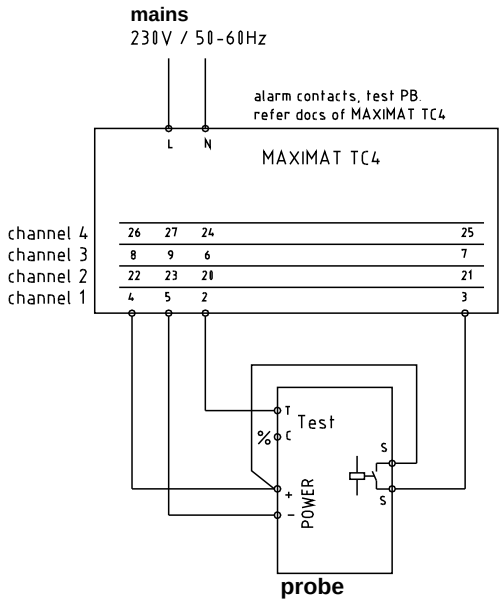
Function Test: Before Installation and Initial Start-Up, and During Inspection

Method 1	**Method 2**
	
o Fill a bucket (plastic or metal) with original liquid or water (at least 5 litres) and set it onto the floor. o Immerse and remove the measuring probe several times. o Examine the switching status of the measuring circuit	o Fill a bucket (plastic or metal) with original liquid or water (at least 5 litres). o 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. o At the same time, immerse and remove the measuring probe several times. o Examine the switching status of the measuring circuit (refer to the respective operating instructions to this end).

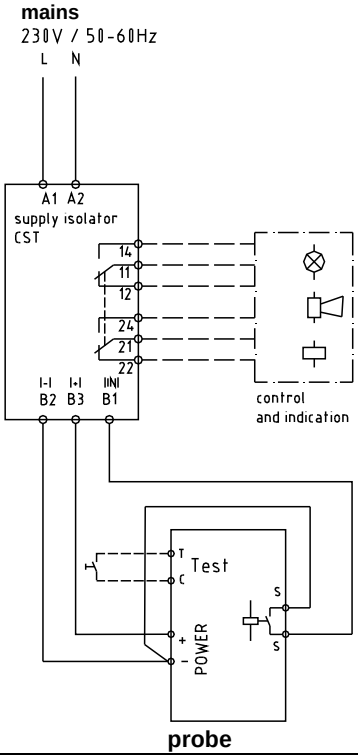
Electrical Connection



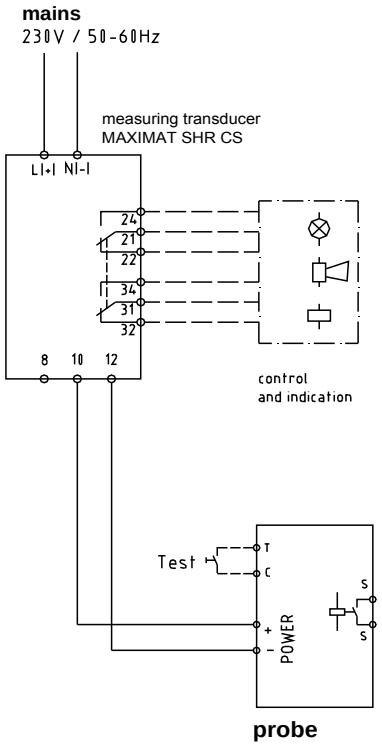
Coupling Relays or PLC



MAXIMAT TC4 Signalling Device

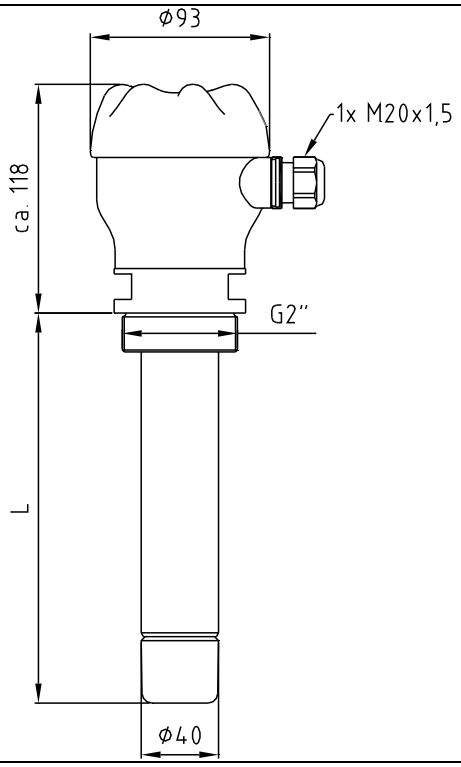
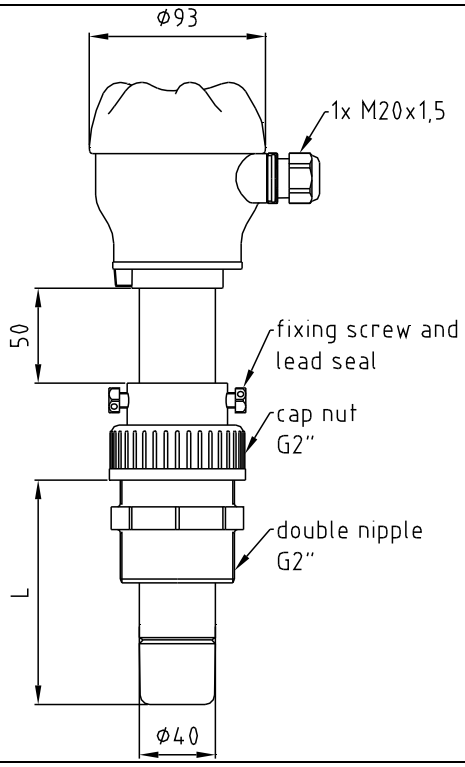
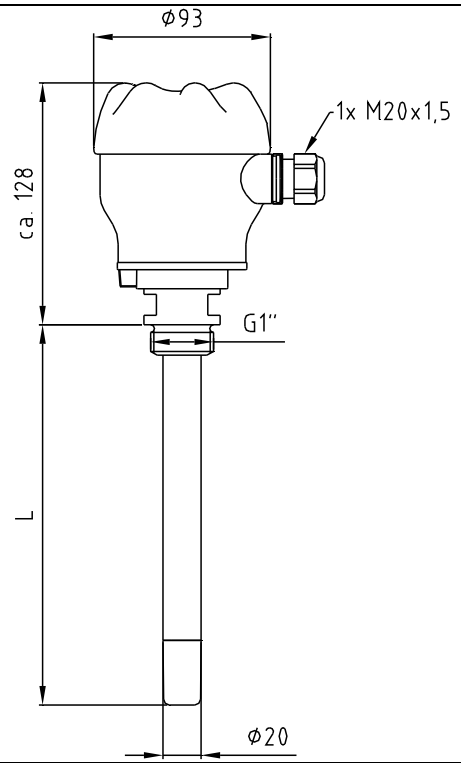
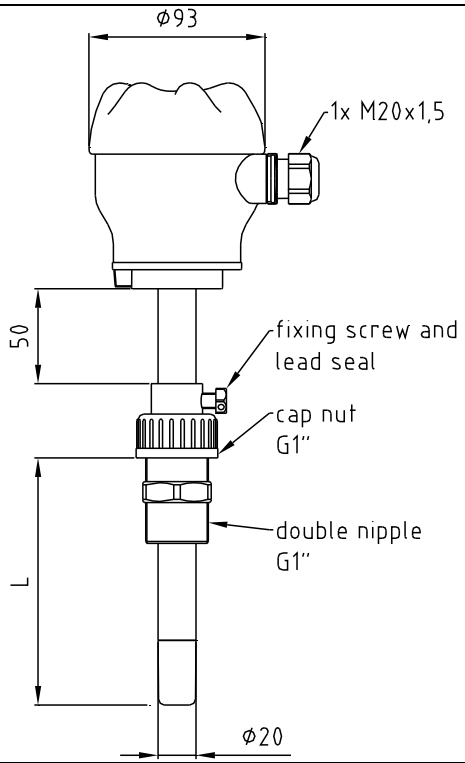


CST Supply Power Isolator



MAXIMAT SHR CS External Measuring Transducer

Dimensions:

Trigger Point, Non-Adjustable	Trigger Point, Adjustable
	
MAXIMAT CX40 K ... N	MAXIMAT CX40 K ... V
	
MAXIMAT CX20 K ... N	MAXIMAT CX20 K ... V