MAXIMAT® C

Compact overfill sensor

INSTRUCTION MANUAL

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Compact overfill sensor
MAXIMAT® C
03-01-2008 555 M1 01 B

MES
555-01/1

CAUTION

Trained personnel may only perform installation, initial start-up and maintenance.
All applicable European and national regulations regarding installation of electrical equipment must be adhered to.

- The device may only be connected to supply power complying 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 the operating instructions!

DESCRIPTION

The MAXIMAT C, compact overfill sensor, is used as an overfill monitoring device for permanently installed containers used for the storage of non-flammable, water endangering liquids.

It is equipped with three different output circuits:

- A binary output for controlling a coupling relay or the digital input at a PLC
- A 0 to 20 mA current output for controlling an analog input channel, e.g. a programmed logic controller (PLC)
- Self-monitoring measuring circuit in combination with the MAXIMAT SHR C... measuring transducer with a 2 wires connection.

Applications: Note that stored liquids may not tend to precipitate insulating or conductive sediments.

CE mark: In accordance with low-voltage directive (73/23/EWG), EMC directive (89/336/EWG)

TECHNICAL FEATURES

Supply power:	24 V DC ± 10% (power supply with current limiting or 250 mA fuse recommended
Connected load:	Approx. 3 W
Ambient temperature:	-20 to +60°C
Container pressure:	Atmospheric (0.8 to 1.1 bar)
Outputs:	
+DO / -DO	NPN max. 30 mA / max. 24 V DC
+AO / -AO	0 to 20 mA
Housing:	IP 65 – PBT – EN 60529
Terminals:	Screw terminals, IP 20
Cable:	Maximal wire cross-section = 2.5 mm_
Input T / OV:	External connection for device test. Alarm ON when test is positive.
Indicators:	Green LED on the connector PCB LED illuminated = Run LED off = Alarm / error

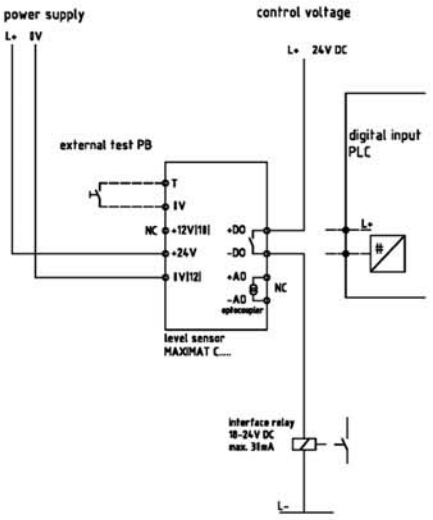
Measuring circuit for use with SHR C...

Cable inductance:	Maximum approx. 5 mH
Cable capacitance:	Maximum approx. 0.5 μF
Measuring circuit cable:	Maximal length = 300 m
Wire cross-section:	Minimum 0.5 mm^2

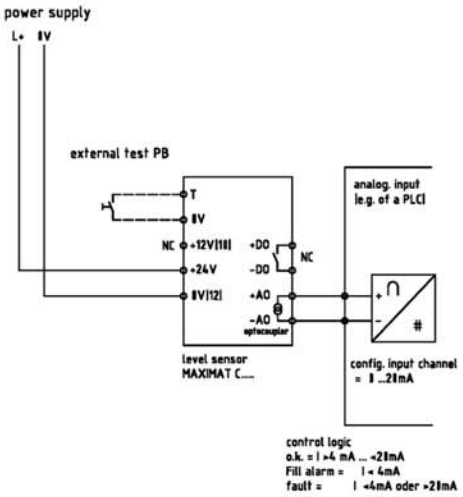
DIBT Approval
Approval N° Z-65.13-294 for overfill sensors and leakage sensors in accordance with WHG §19

Note: The accompanying “General Building Supervisory Approval N° Z-65.13-294” is an integral part of the operating instructions and all stipulations contained therein must be adhered to!

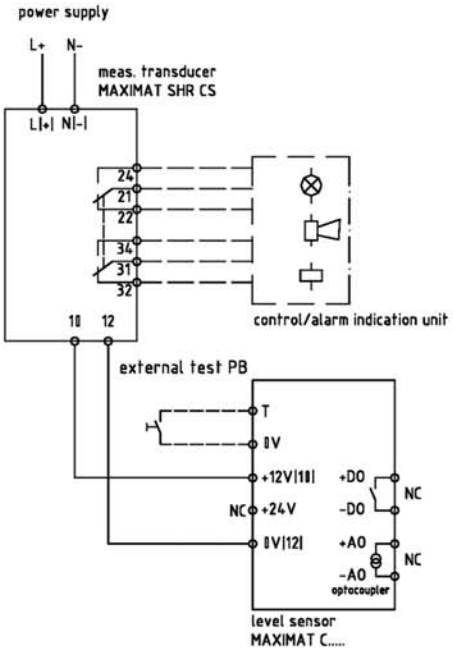
WIRING



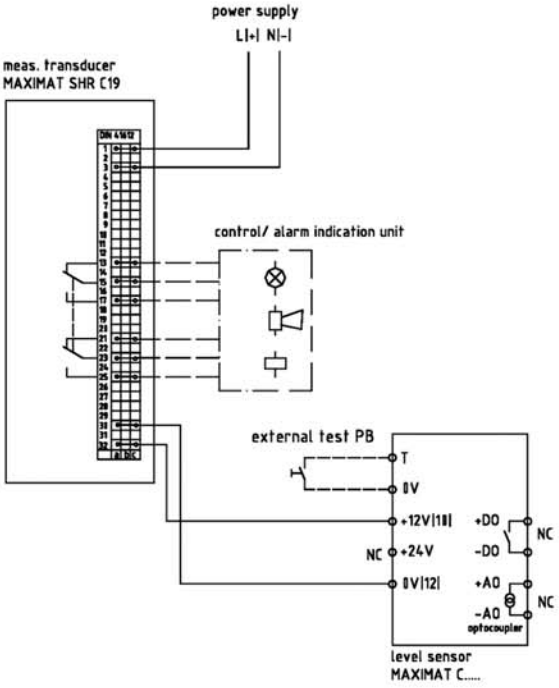
MAXIMAT C..., Binary output to coupling relay / PLC



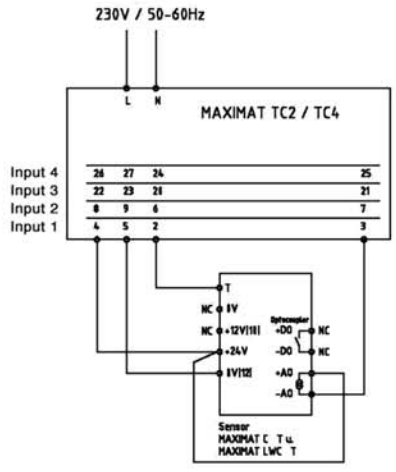
MAXIMAT C..., Curent output to PLC analogue input

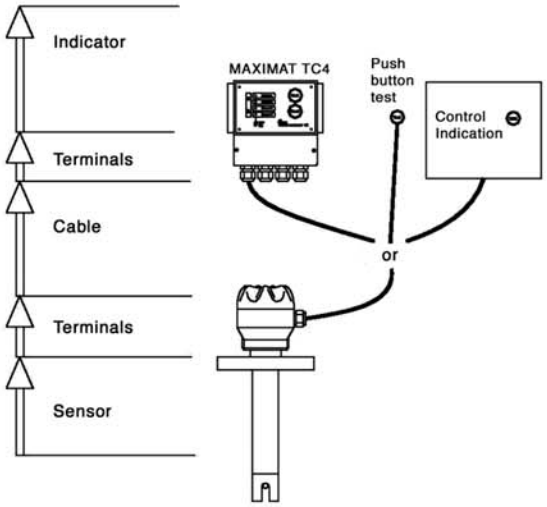


MAXIMAT C... to MAXIMAT SHR CS measuring transducer

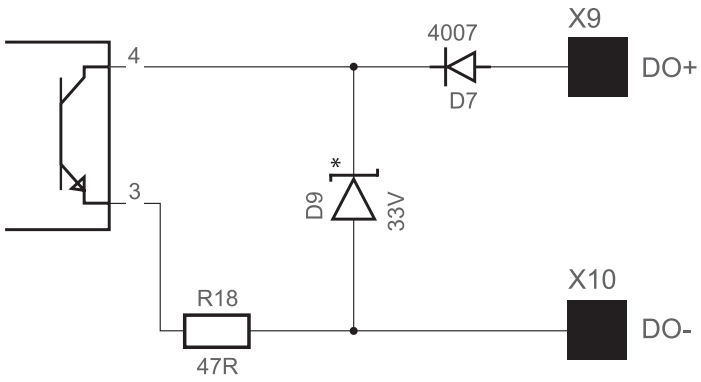


MAXIMAT C... to MAXIMAT SHR C19 measuring transducer



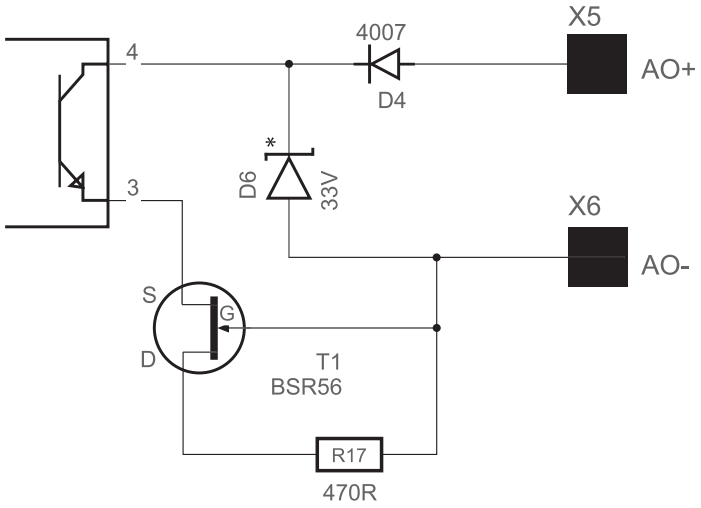


MAXIMAT C... with MAXIMAT TC4



Digital output
+DO / -DO
NPN max. 30 mA

MAXIMAT



Analog output
+AO / -AO
0 to 20 mA