Leakage detection
MAXITOP - LW C

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 device may only be connected to supply power complying with specifications specified 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

MAXITOP LW C is a leakage detection probe for permanently installed containers used for the storage of non-flammable, water endangering liquids.

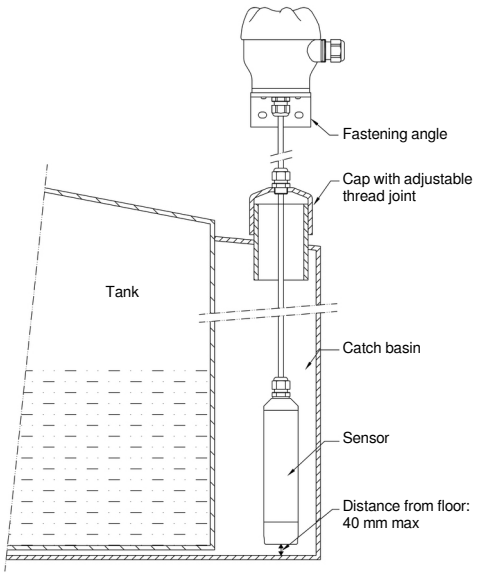
MAXITOP - LW C has four different possible transmissions:
- Relay output in use with a CST
- Relay output in use with a SHR (Monitoring safe status)
- Direct connection to a PLC
- Direct connection to an alarming unit TC4

CE MARK

The device fulfills the legal requirements of applicable EU-guidelines

INSTALLATION

The leakage detection probe is suspended such that it hangs into the catch basin of the storage tank to be monitored. Probe may touch the wall of the catch basin, or may stand on the floor. Cable fitting must be mounted in such a way that holds the probe in the vertical position. Hanging cable length is adjustable with the pressure gland (between probe and head housing). Once the probe is installed, be sure the clearance to floor is of 40 mm (between probe and floor), so that leakage alarm is triggered at a maximum fill-level of 50 mm. Leakage probe must be secured against cable twisting, oscillation and any movements. The fittings must be resistant to chemicals.



CAUTION!

The probe cannot stay in immersion: the fluid can damage the cable and penetrate the probe, destroying electronic components. When leakage occurs, the probe must be taken off from the liquid as soon as possible. Clean, rinse and dry the probe before to re-install it (and only if there is no more leaking fluid).

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)
Hysteresis	2 mm approx.
Switching point	5 mm
Terminal housing	PBT, fibre glass reinforced, IP 65 acc. EN 60 529
Terminals	Screw connectors, IP 20; max. wire cross-section 2.5 mm^2
Detection probe/ tube	PE-HD (polyethylene)
Cap Ø 32 or 63 mm	PVC (polyvinyl chloride)
Fastening angle	PVC (polyvinyl chloride)
Shielded cable	PVC sheath (polyvinyl chloride)
Cable gland	PA (polyamide)
Compression seal	NBR (Perbunan)
Input	For an external button switch in order to run a test sequence (connection to terminals T and C) An alarm test is conducted by closing the contact
Signal display	1 LED (green) inside the terminal housing; Lighting = perfect conditions; Off = or alarm status or Error status
Output	Reed contact, potential free, for low voltage, max. 50 V AC/DC, max. 0.5 A, max. 10 VA

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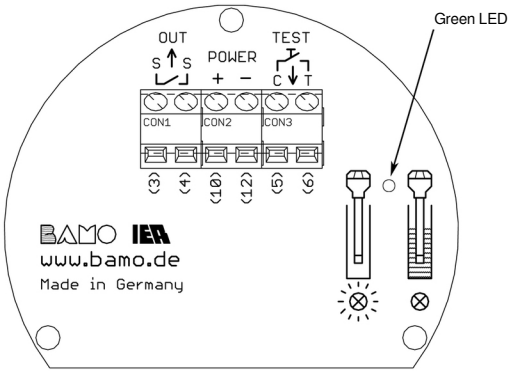
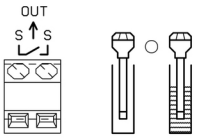
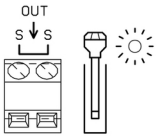
WIRING POSSIBILITIES

Internal PCB

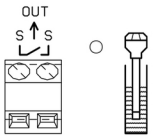




Power Off
(Opened contact)

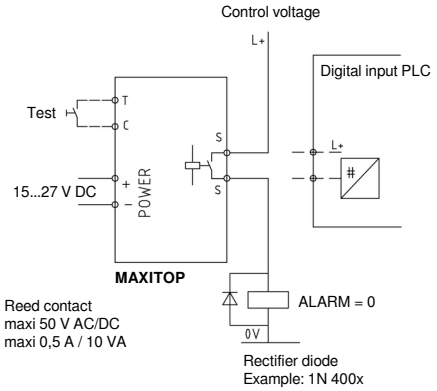


Normal survey status
(Closed contact, LED lighting)

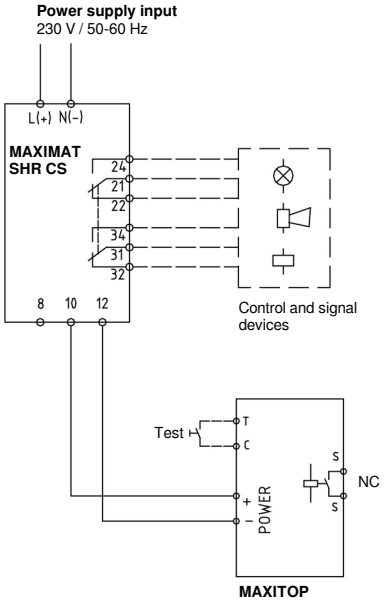


Alarm status
(Opened contact, LED off)

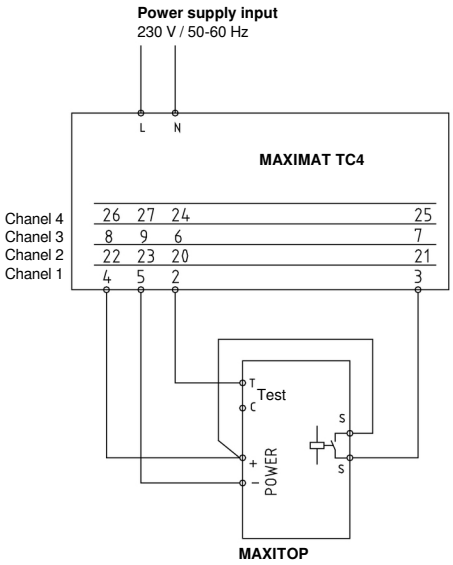
Using built-in Reed contact or connecting a PLC



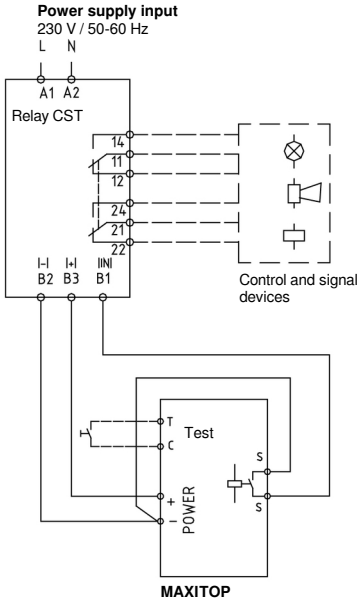
Connecting to a SHR CS



Connecting to a TC4 unit



Connecting to a CST relay



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