

# COMPACT LEAKAGE SENSOR MAXIMAT LW CX SDR



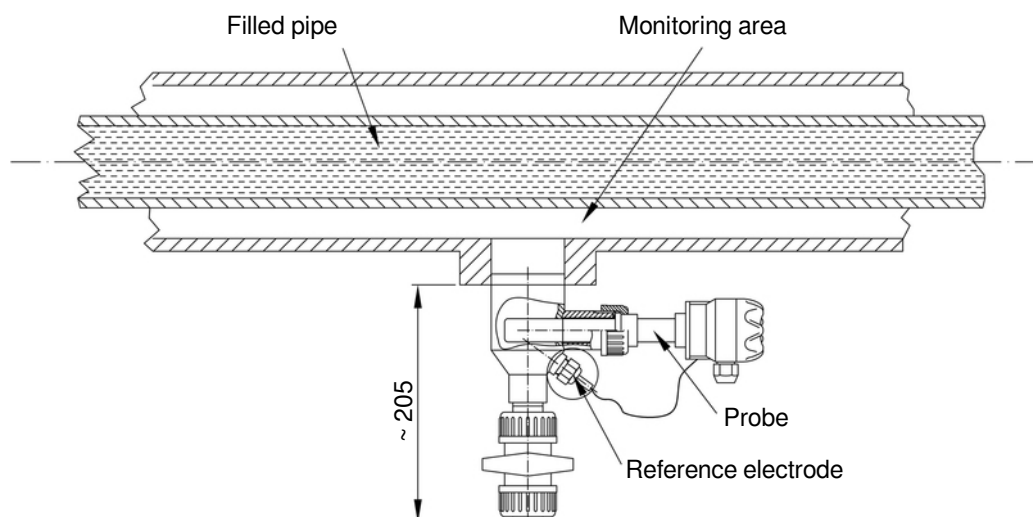
## SAFETY PRECAUTIONS

- Installation, initial start-up and maintenance may only be performed by trained personnel!
- The device may only be connected to supply power compliant to 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 LW CX SDR compact leakage sensors are designed to detect leaks in double-walled pipings with water-polluting liquids. When an electrically conductive liquid comes into contact with the detection sensor, the integrated electronics respond by interrupting the continuous output signal. This signal can be read out from the system controller as acoustic and optical alarm.

## INSTALLATION



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COMPACT LEAKAGE  
SENSOR  
**MAXIMAT LW CX SDR**

24-06-2024

M-556.04-EN-AI

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## TECHNICAL DATA

Working principle	Capacitive high-frequency
Operating/ambient temperature	-20...+60 °C
Operating pressure	Atmospheric, 0.8...1.1 bar
Head housing	PBT, fibre-glass reinforced
Protection	IP65 protection per EN 60 529
Supply power	15...27V DC
Consumption	<1W
Materials	Sensor: PE or PP Union nut: PVC / PP Seal reference electrode: TPR Probe and valve sealing: EPDM / FPM (optional)
Measuring circuit cable length	Max. 300m, min. wire cross-section 0.5mm <sup>2</sup>
Outputs	<b>Potential-free reed relay contact for low voltage (contact opens on alarm)s</b> Max. 50V AC / DC, max. 0.5A, max. 10VA; Convenient for operating with PLC, signaling device TC4 or coupling relay CST. <b>2-wire alarm output reporting</b> with MAXIMAT SHR C

**Note: Simultaneous use of both outputs is not possible!**

Terminals	Screw terminals, cable max. 2.5mm <sup>2</sup>
Additional function	<b>Connection of an external test button (potential-free contact)</b> for a complete diagnose of the MAXIMAT LW CX SDR electronics, the wiring and the signaling and control unit.
Input	For external test button (connection to terminals T and C) Test button contact closed = test alarm is triggered
Connectivity interfaces	Alarm unit MAXIMAT TC1/TC4 Coupling relay CST Measuring transducer MAXIMAT SHR C Automation with PLC

**Note: The function test executed with the test button does not replace the operating test for the regular function checks required by the country in question!**

**CE Mark: The device fulfills the legal requirements of applicable EU-guidelines:**

## COUNTRY-SPECIFIC CERTIFICATIONS

- GERMANY - General technical approval in accordance with the Water Resources Law (WHG)
- SWITZERLAND - Type examination certificate for water protection suitability according to the Conference of Heads of Environmental Protection Offices (KVU)
- BELGIUM - Model certificate of approval in accordance with Flemish environmental authorisation regulations (VLAREM II)

Depending on the country requirements, the corresponding documentation is enclosed.

## SIGNALLING

LED (green) on the connection board:	
Operation:	LED lights up
Alarm/fault:	LED off

## MAINTENANCE

The device is maintenance-free, if used for its intended purpose.

**Please note: In the event of a leak, the sensor must be removed from the medium immediately.**

It must be effectively cleaned (rinsed), and may not be reinstalled until it has been subject to a complete function test to the dry catch basin.

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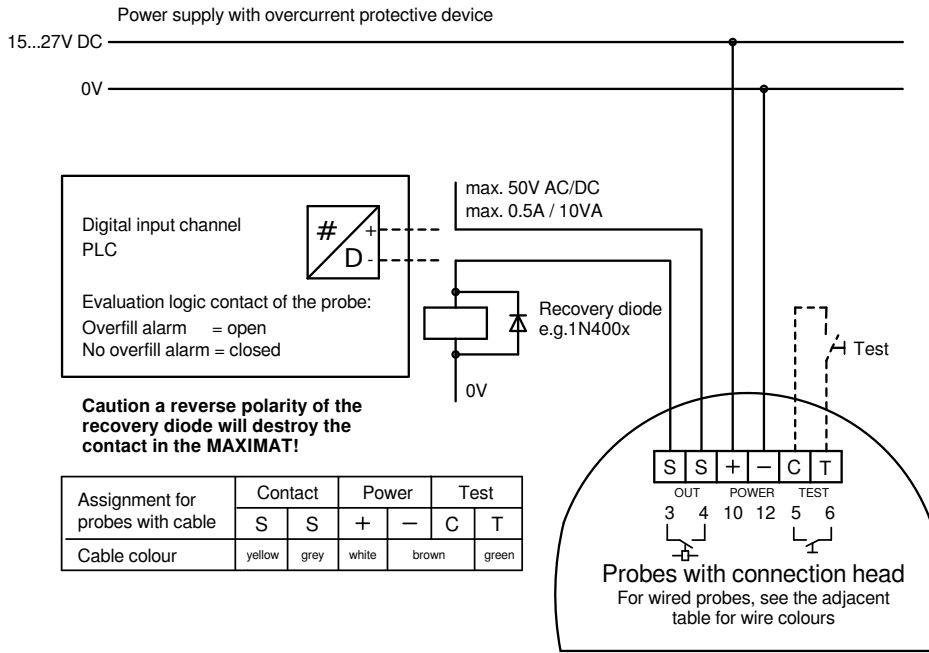
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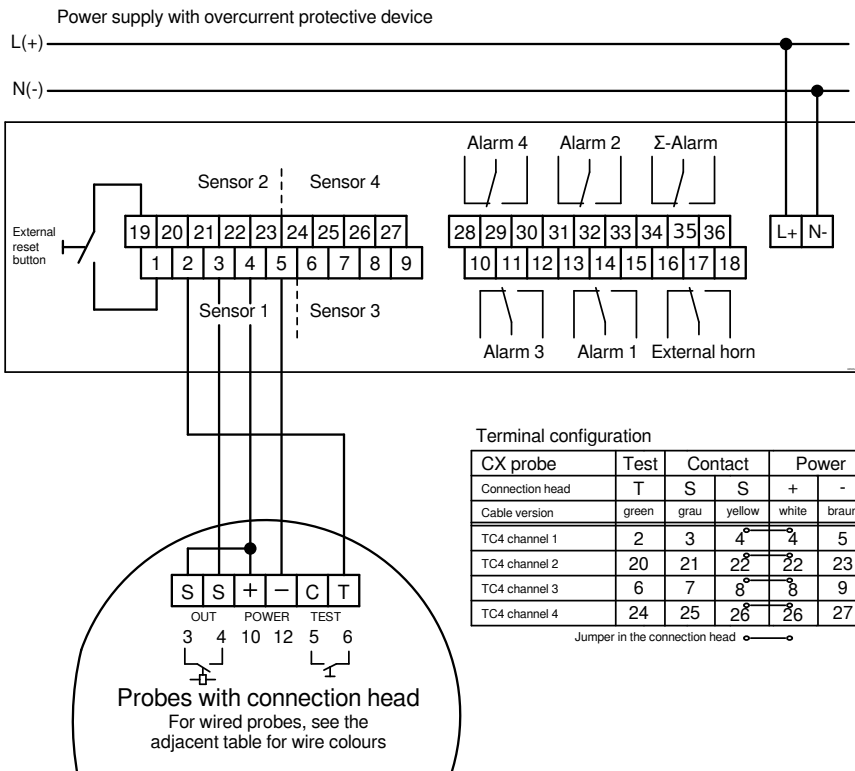
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# ELECTRICAL CONNECTION

## Coupling relay or PLC



## Signalling device MAXIMAT TC4



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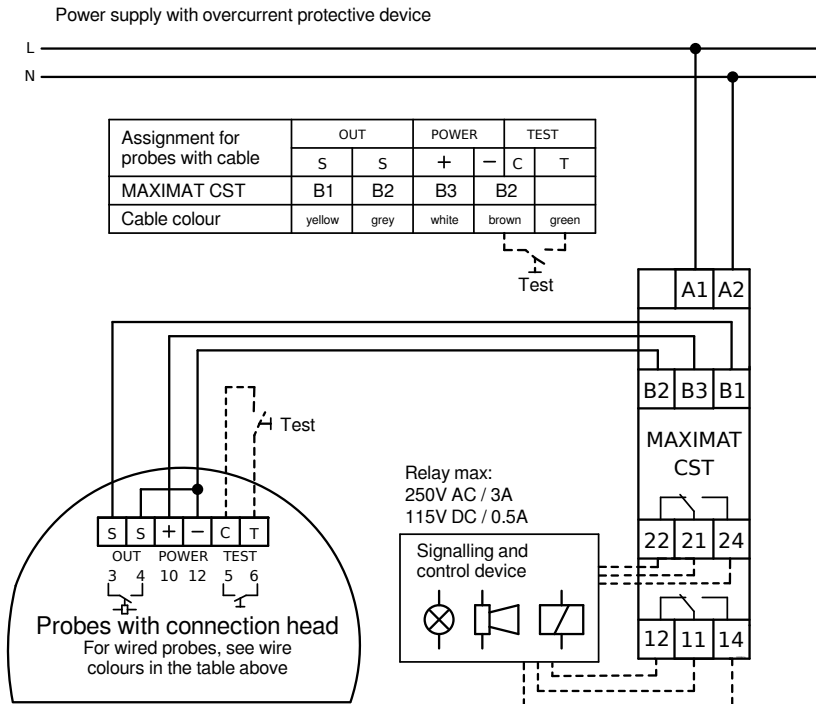
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**ELECTRICAL CONNECTION (continuation)**

**Supply separator CST**



**External transducer MAXIMAT SHR CS**

