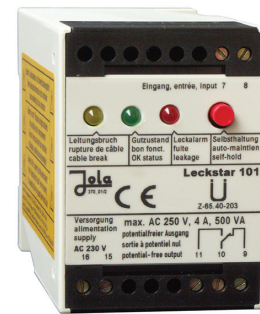


Leakage detectors

Leckstar 5 and Leckstar 101 electrode relays

Electrode relays for U-bar mounting, with connection terminals on top of housing, with switchable self-hold function and with built-in LED(s) for signalling the operating status.

The units are designed for switch cabinet mounting or installation in a suitable protective housing and may therefore only be mounted/installed in these locations. They are suitable for use in clean environments only.

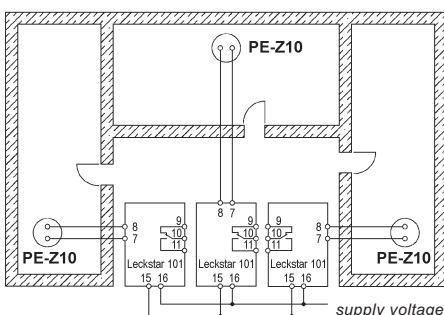


Self-hold:

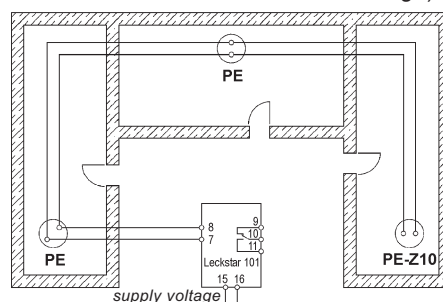
- If the switch for self-hold is switched on, an alarm is stored. The relay continues to signal the alarm even if the cause of the alarm (e.g. the presence of water or a cable break) is no longer present, in other words, if the sensor is dry again or if the line has contact. The alarm is acknowledged by switching off the switch for self-hold.
- If the switch for self-hold is not switched on, the alarm is not maintained when the cause of the alarm has been remedied.

Technical data	Leckstar 5	Leckstar 101
Alternative supply voltages AC versions: DC versions:	terminals 15 and 16; terminal 15: – / terminal 16: + AC 230 V (supplied if no other supply voltage is specified in the order) or AC 240 V or AC 115 V or AC 24 V or DC 24 V or } only for connection to a safety low voltage which corresponds DC 12 V or } to the safety regulations relating to the application further supply voltages on request	
Power input Electrode circuit	approx. 3 VA terminals 7 and 8, under SELV (safety extra low voltage), acting on 1 output relay with self-hold 18 V _{eff} 10 Hz SELV (safety extra low voltage) max. 0.5 mA _{eff} approx. 30 kΩ or approx. 33 μS (electric conductance)	
No-load voltage Short-circuit current Response sensitivity Cable break monitoring	via Zener diode (Z10) circuit at the end of the sensor line (incorporated in the PE-Z10, PEK-Z10 or KE-Z10 electrodes)	
Controlled circuit	terminals 9, 10 and 11, 1 single-pole potential-free changeover contact based on the quiescent current principle	
Switching status indicators	• red LED permanently lit: leakage alarm, output relay not energized	• yellow LED flashing: cable break, output relay not energized • green LED permanently lit: OK status, output relay energized • red LED permanently lit: leakage alarm, output relay not energized
Switching voltage Switching current Switching capacity	max. AC 250 V max. AC 4 A max. 500 VA	
Housing Connection Protection class Mounting Mounting orientation	insulating material, 75 x 55 x 110 mm terminals on top of housing IP20 clip attachment for U-bar to DIN 46 277 and EN 50 022 any	
Temperature range Max. cable length between electrode relay and electrode(s) EMC	– 20°C to + 60°C 1,000 m for interference emission in accordance with the appliance-specific requirements for households, business and commerce as well as small companies, and for interference immunity in accordance with the appliance-specific requirements for industrial companies	

Leckstar 101 circuit diagrams (position of contacts when Leckstar 101 without voltage)



Connection of several plate electrodes to several Leckstar 101 electrode relays - separate alarms



Connection of several plate electrodes to one Leckstar 101 electrode relay - group alarm