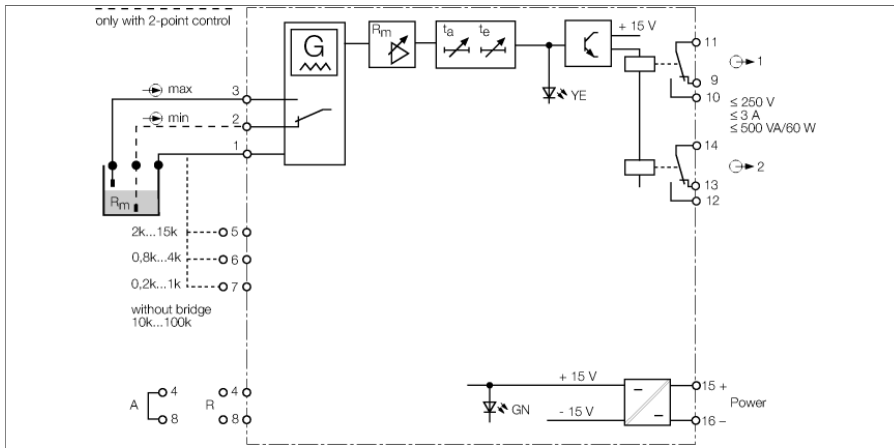


Level controller 1-channel MK91-121-R/24VDC



The 1-channel level controller MK91-121-R/24VDC monitors and regulates conductive liquid levels. As a dual level regulator, it can be used to control pumps and solenoid valves, as monitoring device it is designed for run-dry or over flow protection

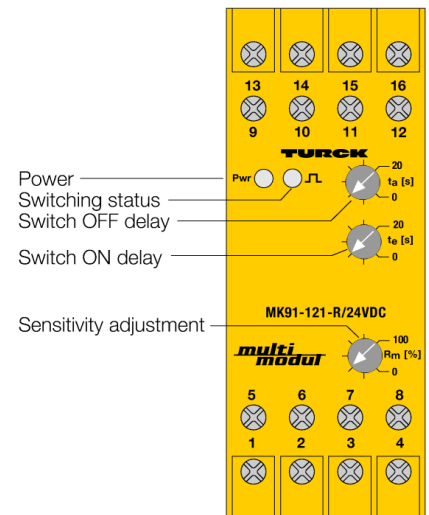
The level controller not only provides optimum reliability in differentiating liquids, it is also suited for the distinction between foam and liquid.

The responsivity (liquid resistance) is adjustable between 0.2 ... 100 kΩ. One of the four sensitivity ranges is selected by bridging the input terminals. Then you can finetune the switchpoint via the potentiometer at the front.

The possibility of setting the switch-on and switch-off delay separately is very important when dealing with turbulent liquid levels. You can set a delay time between 0 ... 20 s via the potentiometers at the front.

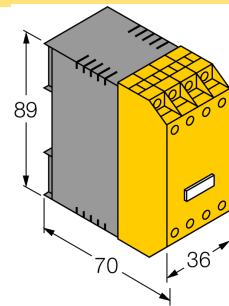
Two relay outputs each with one changeover contact are available to output the switching commands. The output configuration of both outputs can be changed from NC mode R (no bridge between terminals 4/8) to NO mode A (bridge between terminals 4/8).

The switching status of the output is indicated by a yellow LED and operational readiness by a green LED.



- Responsivity: 0.2...100 kΩ
- Hysteresis: 10%
- Output: 2 relays with 1 changeover contact
- Electronic switching of electrodes
- Switch-on/off delay 0...20 s, separately adjustable
- Reliable distinction between foam and liquid
- Galvanic isolation of input circuits, output circuits and power supply

Dimensions



| | |
|--------------------------------|--|
| Type | MK91-121-R/24VDC |
| ID | 7545087 |
| Nominal voltage | 24 VDC |
| Operating voltage U_s | 20...28 VDC |
| Power consumption | $\leq 1.5 \text{ W}$ |
| Input circuits | 2 electrodes or alternatively 3 electrodes |
| Schaltpunkt | 0,2-100 k Ω |
| Probe voltage | 0,02...5 Vpp/150 Hz (triangle) |
| Schaltsschwelle | 0,2...1 k Ω |
| Schaltsschwelle | 0,8...4 k Ω |
| Schaltsschwelle | 2,5...15 k Ω |
| Schaltsschwelle | 10...100 k Ω |
| Einschaltverzögerung | 0...20 s |
| Ausschaltverzögerung | 0...20 s |
| Hysteresis | 10 % |
| Output circuits | |
| Output circuits (digital) | 2 x relays (change-over) |
| Output switching voltage relay | $\leq 30 \text{ VDC} / \leq 250 \text{ VAC}$ |
| Switching current per output | $\leq 3 \text{ A}$ |
| Switching capacity per output | $\leq 500 \text{ VA/60 W}$ |
| Switching frequency | $\leq 5 \text{ Hz}$ |
| Galvanic isolation | |
| Test voltage | 2.5 kV RMS |
| Displays/Operating elements | |
| Operational readiness | Green |
| Switching state | Yellow |
| Mechanical data | |
| Protection class | IP20 |
| Ambient temperature | -25...+60 °C |
| Storage temperature | -40...+80 °C |
| Dimensions | 89 x 36 x 70 mm |
| Weight | 160 g |
| Mounting instructions | DIN rail (NS35) or panel |
| Housing material | Plastic, Polycarbonate/ABS |
| Electrical connection | 4 x 4-pin flat terminals with self-lifting pressure plates |
| Terminal cross-section | 1 x 2.5 mm ² /2 x 1.5 mm ² |