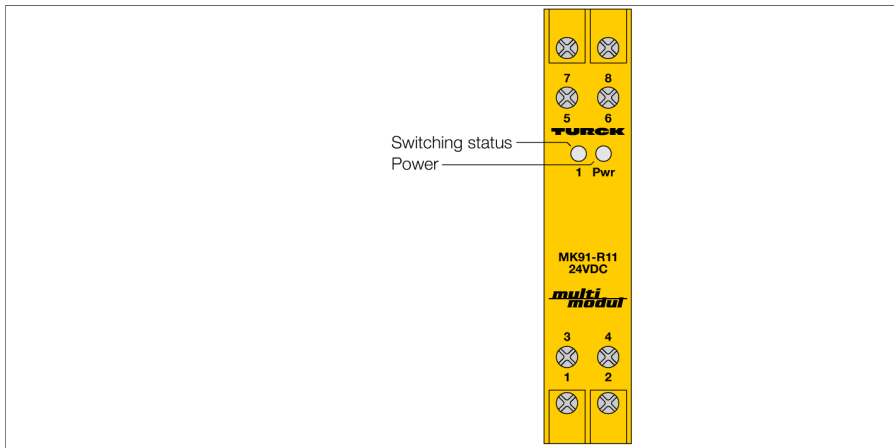


Level controller 1-channel MK91-R11/24VDC



The 1-channel level controller MK91-R11/24VDC regulates conductive liquid levels. Electrodes connected to the device analyse the resistance of the liquid against the container mass.

A square-wave AC voltage signal is applied to the electrode. This enables DC-free and therefore electrolytic-free measurement of the liquid resistance.

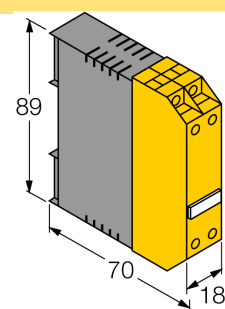
The device has a relay output with a changeover contact.

The switchpoint of the level controller is set to $R_s = 40 \text{ k}\Omega$ (different values on request). If the response sensitivity falls below the set point, the relay is energized with a delay of 10 s.

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

The device provides protection against reverse polarity and transient surge protection.

- Switching point at $40 \text{ k}\Omega$
- Hysteresis approx. 5%
- Output: Relay with 1 changeover contact
- Complete galvanic isolation
- Input reverse-polarity protected

Dimensions


Type	MK91-R11/24VDC
ID	7525202
Nominal voltage	24 VDC
Operating voltage U_s	19...29 VDC
Power consumption	$\leq 0.5 \text{ W}$
Input circuits	2 electrodes
Schaltpunkt	40 k Ω
Probe voltage	$\pm 2 \text{ V}/50 \text{ }\mu\text{A}/3 \text{ Hz}$
Hysterese	5 %
Output circuits	
Output circuits (digital)	1 x relay (change-over)
Output switching voltage relay	$\leq 30 \text{ VDC} / \leq 250 \text{ VAC}$
Switching current per output	$\leq 3 \text{ A}$
Switching frequency	$\leq 5 \text{ Hz}$
Galvanic isolation	
Test voltage	4.0 kV
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 18 x 70 mm
Weight	79 g
Mounting instructions	DIN rail (NS35) or panel
Housing material	Plastic, Polycarbonate/ABS
Electrical connection	4 x 2-pin flat terminals with self-lifting pressure plates
Terminal cross-section	1 x 2.5 mm ² /2 x 1.5 mm ²