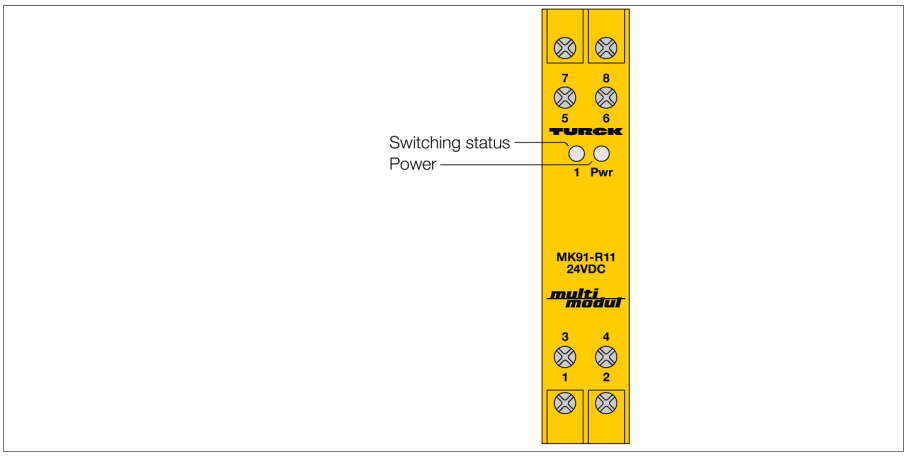
Level controller
1-channel
MK91-R11/24VDC



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_{in} = 40 kΩ (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 kΩ
- Hysteresis approx. 5%
- Output: Relay with 1 changeover contact
- Complete galvanic isolation
- Input reverse-polarity protected

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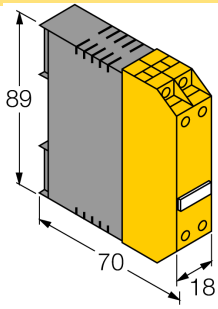
Type	MK91-R11/24VDC
ID	7525202
Nominal voltage	24 VDC
Operating voltage U_B	19…29 VDC
Power consumption	≤ 0.5 W
Input circuits	2 electrodes
Schaltpunkt	40 kΩ
Probe voltage	±2 V/50 µA/3 Hz
Hysterese	5 %
Output circuits	
Output circuits (digital)	1 x relay (change-over)
Output switching voltage relay	≤ 30 VDC / ≤ 250 VAC
Switching current per output	≤ 3 A
Switching frequency	≤ 5 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 × 2-pin flat terminals with self-lifting pressure plates
Terminal cross-section	1 × 2.5 mm²/2 × 1.5 mm²

Dimensions



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