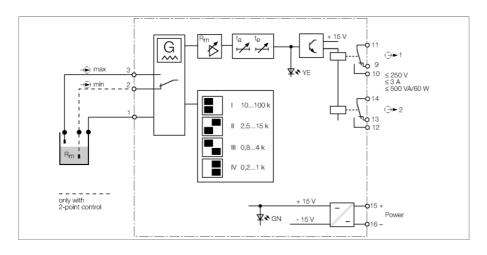


Level controller 1-channel MK91-12-R/24VDC



Switching status

Power
Switch OFF delay

Range selector
Switch ON delay

Sensitivity adjustment

Sensitivity adjustment

Switch ON delay

MK91-12-R

MK91

The 1-channel level controller MK91-12-R/24VDC monitors and regulates conductive liquid levels.

As a dual level regulator, it can be used to control pumps or 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 k Ω . First, select one of the four sensitivities with the "Range" switch. Then you can finetune the switchpoint via the potentiometer at the front.

The separately adjustable switch-on and switch-off delay is very important for 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) to NO mode (A) for all measuring ranges using the "Range" switch.

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

For further information, please order out installation guidelines.

- 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

89	
70	36

_	NIVOL 10 DIOUNDO
Type	MK91-12-R/24VDC
ID	7545077
Nominal voltage	24 VDC
Operating voltage U _B	2028 VDC
Power consumption	≤ 1.5 W
1 cmor concumption	2 1.0 W
Input circuits	2 electrodes or alternatively 3 electrodes
Schaltpunkt	0,2-100 kΩ
Probe voltage	0,025 Vpp/150 Hz (triangle)
Schaltschwelle	0,21 kΩ
Schaltschwelle	0,84 kΩ
Schaltschwelle	2,515 kΩ
Schaltschwelle	10100 kΩ
Einschaltverzögerung	020 s
Ausschaltverzögerung	020 s
Hysterese	10 %
Output circuits	
Output circuits (digital)	2 x relays (change-over)
Output switching voltage relay	≤ 30 VDC / ≤ 250 VAC
Switching current per output	≤ 3 A
Switching capacity per output	≤ 500 VA/60 W
Switching frequency	≤ 5 Hz
Out out to the first	
Galvanic isolation	0.5.11/1940
Test voltage	2.5 kV RMS
Displays/Operating elements	
Operational readiness	Green
Switching state	Yellow
	15.15.1
Mechanical data	
Protection class	IP20
Ambient temperature	-25+60 °C
Storage temperature	-40+80 °C
Dimensions	89 x 36 x 70 mm
Weight	150 g
Mounting instructions	DIN rail (NS35) or panel
Housing material	Plastic, Polycarbonate/ABS
Electrical connection	4 × 4-pin flat terminals with self-lifting pressure
	plates
Terminal cross-section	1 × 2.5 mm ² /2 × 1.5 mm ²