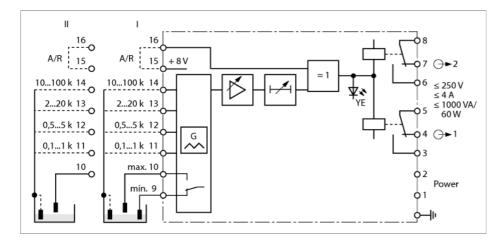


Level controller 1-channel MS91-12-R



The 1-channel level control MS91-12-R monitors and regulates conductive liquid levels (II). As a dual level regulator, it can be used to control pumps and solenoid valves (I). As monitoring device it is designed for run-dry or over flow protection.

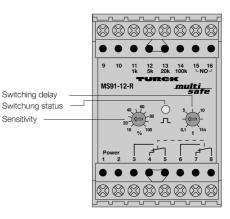
The sensitivity (liquid resistance) is adjustable between 0.1 ... 100 k Ω . One of the four sensitivity ranges is selected by the terminal configuration. Fine adjustment of the switch point within the selected range is achieved with a front cover potentiometer. The level controller not only provides optimum reliability in differentiating liquids, it is also suited for the distinction between foam and liquid .

The adjustable switch-on and switch-off delay is especially important for turbulent liquid levels. A delay time between $0.1 \dots 15$ s can be set via the front cover potentiometer.

Two parallely operating relay outputs with one changover contact each are provided to output the switching commands. The output configuration of both outputs can be changed from NC mode (no bridge between terminal 15/16) to NO mode (with bridge between terminals 15/16).

The switching status is indicated by a yellow LED.

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



TURCK

Automation

Industrial

- Output: 2 relays with changeover contact
- Responsivity: 0.2...100 kΩ
- Removable terminal blocks
- Switching of electrodes via auxiliary relay
- Switch ON/OFF delay adjustable 0.1...15 s
- Reliable distinction between foam and liquid
- Galvanic separation of input circuits, output circuits and power supply



Level controller 1-channel MS91-12-R

TU	RCK

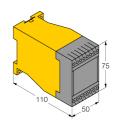
Industri<mark>al</mark> Automation

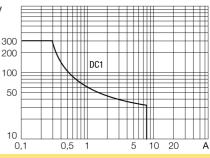
Tuno	MS01 12 P
Type	MS91-12-R 5220110
Ident-No.	5220110
Nominal voltage	Universal voltage supply unit
Operating voltage	20250 VAC
Frequency	4070 Hz
Operating voltage range	20250 VDC
Power consumption	\leq 3 W
Input circuits	2 electrodes or alternatively 3 electrodes
Schaltpunkt	0,1-100 kΩ
Probe voltage	5 Vpp/100 Hz (triangle)
Schaltschwelle	0,11 kΩ
Schaltschwelle	0,55 kΩ
Schaltschwelle	0,84 kΩ
Schaltschwelle	10100 kΩ
Einschaltverzögerung	0,115s
Ausschaltverzögerung	0,115s
Hysterese	10%
Output circuits (digital)	2 x relay (change-over)
Relay switching voltage	≤ 250 VAC/60VDC
Switching current per output	≤ 4 A
Switching capacity per output	≤ 1000 VA/60 W
Switching frequency	≤ 10 Hz
Contact quality	AgNi, 3µ Au
Galvanic separation	
Test voltage	2.5 kV
Rated voltage	250 V
Indication	
Switching state	yellow
Protection class	IP20
Ambient temperature	-25+60 °C
Dimensions	75x 50x 110 mm
Weight	258 g
Mounting instruction	For mounting on DIN rail or mounting panel
Housing material	Polycarbonate/ABS
Electrical connection	2 x 8-pole removable terminal blocks, reverse polari-
	ty protected, screw connection

Terminal cross-section

ty protected, screw connection 1 x 2.5 mm² / 2 x 1.5 mm²







utput relay electrical lifetime

