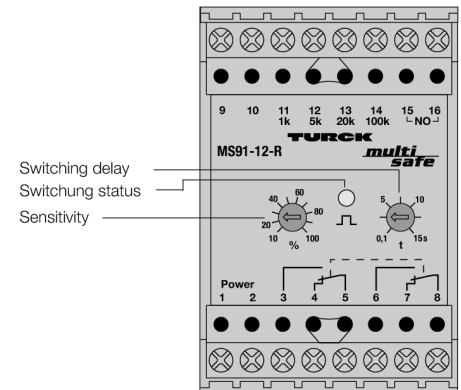
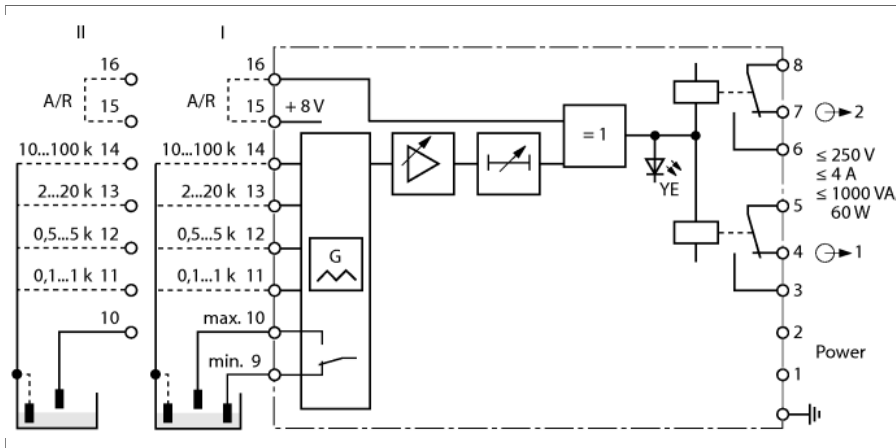


Level controller

1-kanallı

MS91-12-R (UNT)



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 kΩ. 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 very important for turbulent liquid levels. A delay time between 0.1 ... 15 s can be set via the potentiometer on the front.

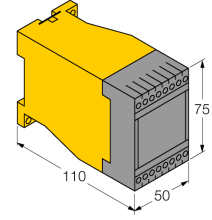
Two parallelly operating relay outputs with one changeover contact each are provided to output the switching commands. The output configuration of both outputs can be changed from NC mode (no bridge between terminal 15/16) to NO mode (with bridge between terminals 15/16).

The switching status is indicated by a yellow LED.

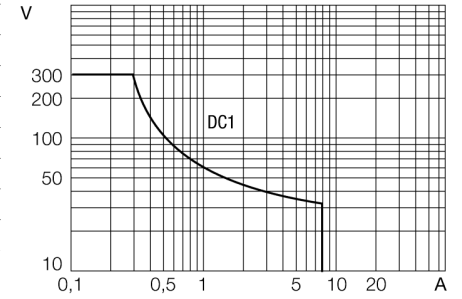
The switching status of the output is indicated by a yellow LED and operational readiness by a green LED.

- 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 isolation of input circuits, output circuits and power supply

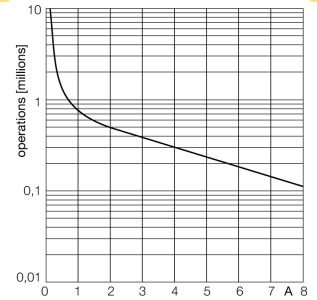
Dimensions



Output relay – Load curve



Output relay – Electrical lifetime



Tip	MS91-12-R
Tanit. no.	5220110
Nominal gerilim	Evrensel gerilim besleme birimi
Çalışma gerilimi	20...250 VAC
Frekans	40...70 Hz
Çalışma gerilimi U_a	20...250 VDC
Güç tüketimi	$\leq 3 \text{ W}$
Giriş devreleri	2 elektrot veya alternatif olarak 3 elektrot
Schaltpunkt	0,1-100 k Ω
Probe voltage	5 Vpp/100 Hz (triangle)
Schaltswelle	0,1...1 k Ω
Schaltswelle	0,5...5 k Ω
Schaltswelle	2...20 k Ω
Schaltswelle	10...100 k Ω
Einschaltverzögerung	0,1...15s
Ausschaltverzögerung	0,1...15s
Hysteresis	%10
Output circuits	
Output circuits (digital)	2 x relays (change-over)
Çıkış anahtarlama gerilim rölesi	$\leq 60 \text{ VDC} / \leq 250 \text{ VAC}$
Switching current per output	$\leq 4 \text{ A}$
Switching capacity per output	$\leq 1000 \text{ VA}/60 \text{ W}$
Anahtarlama frekansı	$\leq 10 \text{ Hz}$
Galvanik yalıtım	
Test gerilimi	2,5 kV RMS
Ekranlar/kontroller	
Anahtarlama durumu	Sarı
Mekanik veriler	
IP Derecesi	IP20
Ortam sıcaklığı	-25...+60 °C
Boyutlar	75 x 50 x 110mm
Ağırlık	246 g
Montaj talimatları	DIN rayı (NS35) veya panel
Gövde malzemesi	Plastik, Polikarbonat/ABS
Elektrik bağlantısı	2 x 8 pimli çıkarılabilir terminal bloğu, ters kutup korumalı, vida bağlantısı
Terminal ara kesiti	1 x 2,5 mm ² /2 x 1,5 mm ²