Level Monitors Type NS43

MIN/MAX-Regulation, protection from overflow and unlubricated operation

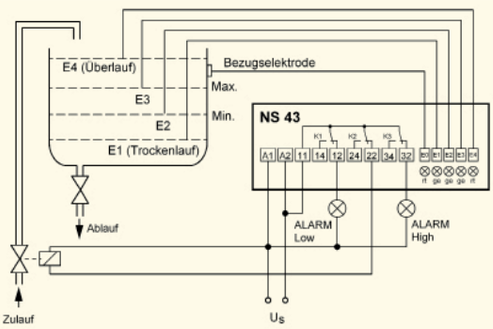
NS43

The level monitor NS43 regulates the level of liquid in a container between 2 electrodes. In the normal operation the level of the liquid is situated between the electrodes E2 and E3. The relay K2 tightens, if the level E3 is achieved and drops, if E2 is fallen below. Over the output contacts (1 change-over switch) a pump or a valve can be controlled depending upon case of application and so the level be regulated. If the level continues to rise in an incident and if the electrode achieves E4, then a message takes place via relay K3 (drops). In the reverse case (level under E1) the relay K1 drops and protects e.g. a pump against running dry.
LEDS signal, which electrodes are moistened.

- Level monitoring of leading liquids
- MIN/MAX level regulation
- protection from overflow
- protection from running dry
- sensitivity adjustable 5... 250 k?
- LED for level display / alarm

Application:
In the galvanotechnics and everywhere, where the level of a leading liquid must be held on a certain level and at the same time a monitoring on overflow and/or no-load operation is necessary.

Order-number: V223267



E0 (tank empty): rt, Rel. K1 off, Contact 11-12 closed.
E1 dipped: ge, Rel. K1 on, Contact 11-14 closed.
E2 dipped: ge, Rel. K2 off, Contact 11-22 closed.
E2 u. E3 dipped: ge, Rel. K2 on, Contact 11-24 closed.
(Rel. remains picked up until E2-E3 not dipped)
E4 benetzt: rt, Rel. K3 off, Contact 11-32 closed.

running dry E1 (E0=rot) = ALARM Low
overflow E4 = ALARM High

Technical Data

Supply voltage U_s		AC/DC 24-240 V
Admissible tolerance U_s		AC 20-264 V, DC 20-297 V
Power consumption		≤ 5 VA, < 3 W
Frequency		0,45 - 62 Hz
Relay		3 CO
Contact		Type 2 see "general technical information"
Pick up delay		approx. 1 s
Release delay		approx. 1 s
Test conditions		see "general technical information"
Rated ambient temperature range		-20°C...+60°C
Number of electrodes		5
Voltage at electrodes		< AC 3 V_{eff} (≤ 0,1 mA)
Line capacity	at 5 kΩ	max. 500 nF = approx. 2500 m
	at 25 kΩ	max. 100 nF = approx. 500 m
	at 250 kΩ	max. 10 nF = approx. 50 m
Dimensions (h x w x d) mm		Design K: 75 x 22,5 x 115 mm
Attachment		Snap mounting on 35 mm standard rail
Protection housing/terminals		IP 30/ IP 20
Weight		approx. 130 g