

Level Monitors Type NS43

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

NS43



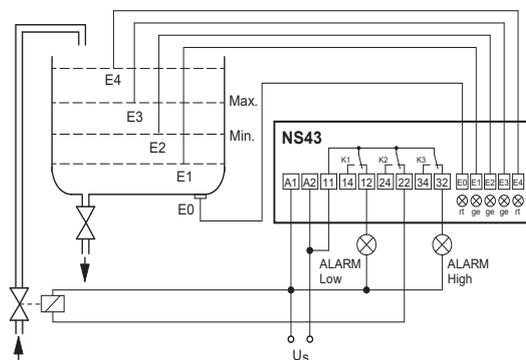
Part number: **V223267**

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 Ω
- 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.



Elektrodes	LED	Relay	Contact	
E1 not dipped	E0-red	K1 off	11-12 closed	ALARM Low (running dry)
E1 dipped	E1-ye	K1 on	11-14 closed	
E2 dipped	E2-ye	K2 off	11-22 closed	
E3 dipped	E3-ye	K2 on	11-24 closed	
E4 dipped	E4-red	K3 off	11-32 closed	ALARM High (overflow)

Technical Data

Supply voltage U_s
Admissible tolerance U_s
Power consumption
Frequency

AC/DC 24-240 V
AC 20-264 V, DC 20-297 V
 ≤ 5 VA, < 3 W
0,45 - 62 Hz

Relay
Contact

3 CO
Type 2 see "general technical information"

Pick up delay
Release delay

approx. 1 s
approx. 1 s

Test conditions
Rated ambient temperature range

see "general technical information"
-20°C...+60°C

Number of electrodes
Voltage at electrodes

5
 $< AC 3 V_{eff} (\leq 0,1 \text{ mA})$

Line capacity at 5 k Ω
at 25 k Ω
at 250 k Ω

max. 500 nF = approx. 2500 m
max. 100 nF = approx. 500 m
max. 10 nF = approx. 50 m

Dimensions (h x w x d) mm
Attachment
Protection housing/terminals
Weight

Design K: 75 x 22,5 x 115 mm
Snap mounting on 35 mm standard rail
IP 30/ IP 20
approx. 130 g