

Description

The NG 03 power supply is suitable for E-T-A Level Sensors NR 60, NR 80, NR 100, NR 150 and NR 160. It has a relay output with adjustable switching delay which is controlled by the signal output of the sensor. Status indication is by green LED. Power failure and wire break are indicated in the same way as incorrect medium level (closed circuit principle).

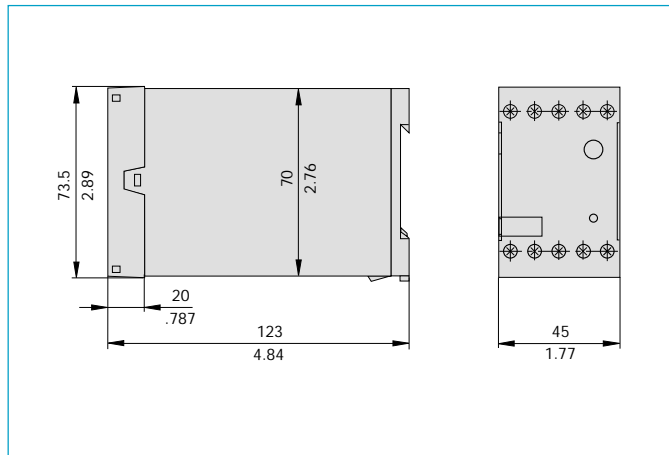
Features

- DIN rail mounting
- relay output with adjustable switch-off delay
- LED status indication

Ordering information

Type No.	
NG 03	Power Supply for mounting on DIN rail 50 022-35
	Input voltage
	AC 115 V 50/60 Hz
	AC 230 V 50/60 Hz
	AC 240 V 50/60 Hz
NG 03 - AC 230 V	ordering example

Dimensions



This is a metric design and millimeter dimensions take precedence ($\frac{\text{mm}}{\text{inch}}$)

All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved. Product markings may not be exactly as the ordering codes. Errors and omissions excepted.



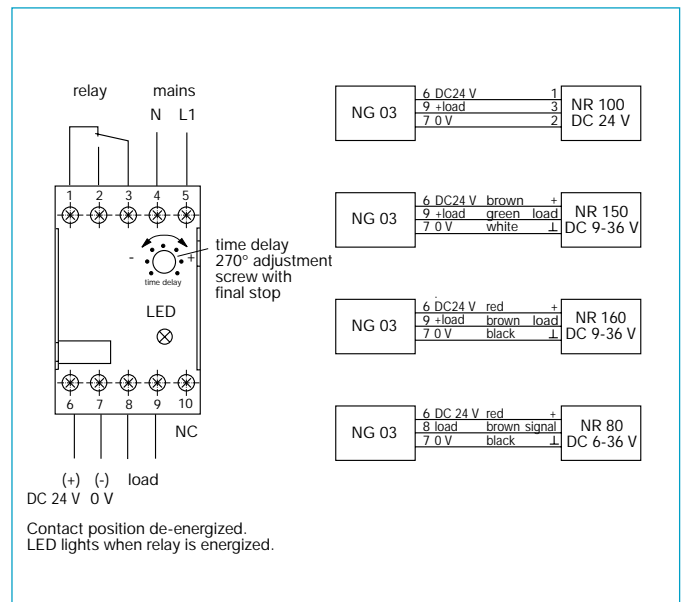
NG 03

Technical data

Input voltage	AC 115 / 230 V / 240 V 50/60 Hz + 10 %/-15 %
Power consumption	max. 4 VA
Output voltage	DC 24 V
Output current	50 mA
Ambient temperature	0 °C...+70 °C / 32 °F...+158 °F
Degree of protection to IEC 529/DIN 40050	IP 20
Connection	screw terminals max. 2.5 mm ²
Relay output	potential-free change over contact 120 W / 1200 VA DC 100 V / AC 250 V / 5 A
Switching delay	1 - 60 s, adjustable
Mounting method	on DIN rail 50 022-35
Mass	approx. 290 g

CE mark to demonstrate compliance with applicable directive.

Connection diagram



Applications

E-T-A Level Sensors are used wherever there is a need for a yes/no indication as to whether the medium is available or not, to supervise the filling level of containers, or to protect pipelines from liquid leakage.

E-T-A Level Sensors are suitable for use in harsh environments to monitor almost any liquid, powders and granules (please inquire for aggressive media). Small deposits on the sensors do not affect their performance.

Level Sensor NR 100 is suitable for sanitary applications.

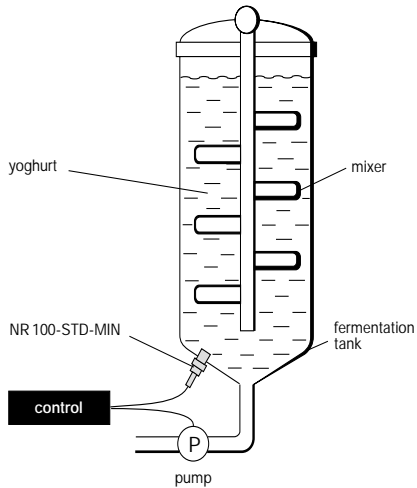
Steam cleaning does not harm this sensor.

Application examples

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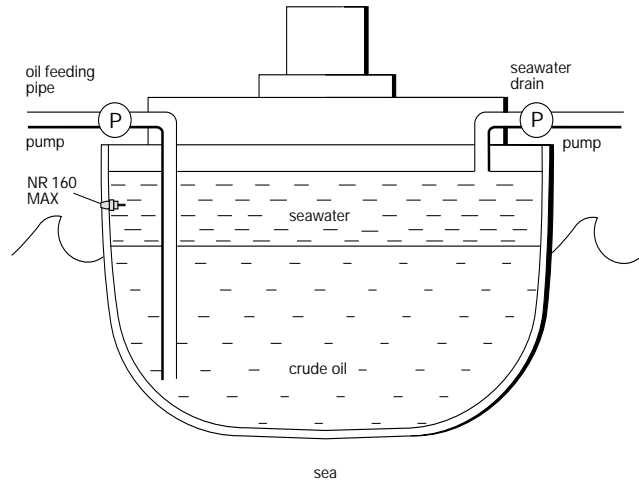
NR 100 as used by the food industry

Yoghurt paste is removed from fermentation tanks by means of a pump. The pipes must be filled completely with the paste to ensure there is no air in the pipes which may promote microbacterial growth.



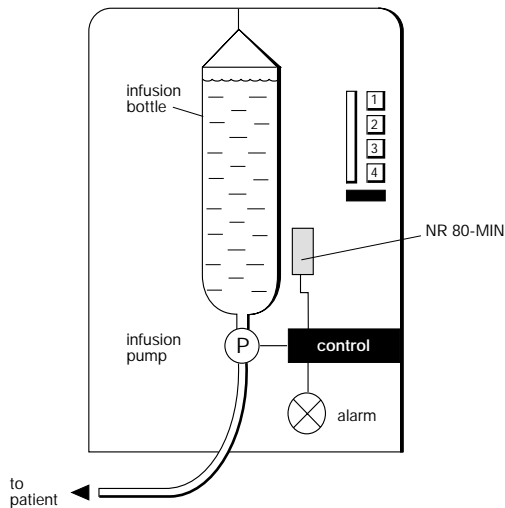
NR 160 in crude oil tankers

To eliminate environmental pollution when tankers are filled or drained, there must be a clear separating line between crude oil and seawater to ensure that crude oil can not be pumped inadvertently into the sea.



NR 80 in medical equipment

Indication that infusion bottles are empty: To overcome personnel shortages, level sensing of infusion bottles can be provided by Level Sensor NR 80 which is able to sense the liquid value through the bottle wall.



NR 60 in process control systems

Low level sensing of oil and cooling water in emergency diesel generator sets.

