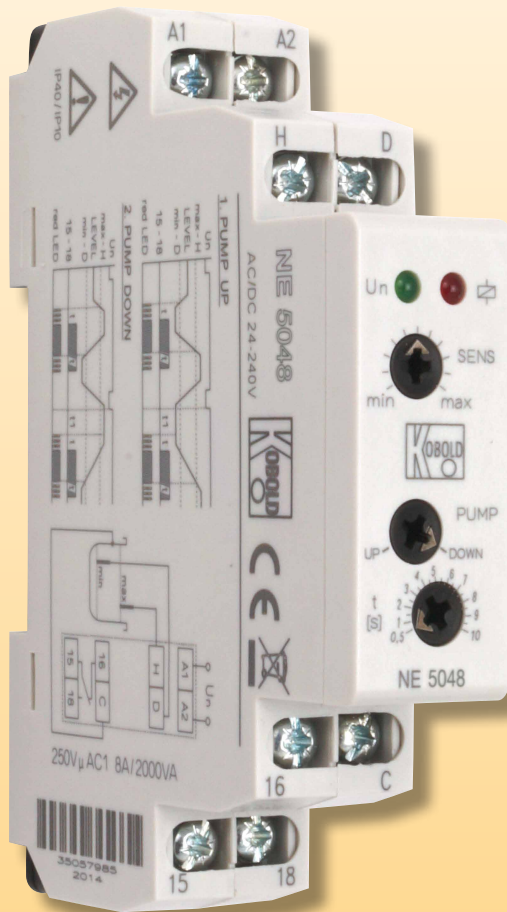


Electrode Relay for Conductive Limit Switches



measuring
•
monitoring
•
analyzing

NE-5048



- For use with conductive electrodes NEK, NEH and LNK
- Limit signal
- Min./Max. controller
- Power supply: 24 - 240 V_{AC/DC}



KOBOLD companies worldwide:

AUSTRALIA, AUSTRIA, BELGIUM, BULGARIA, CANADA, CHINA, CZECHIA, FRANCE, GERMANY, GREAT BRITAIN, HUNGARY, INDIA, INDONESIA, ITALY, MALAYSIA, MEXICO, NETHERLANDS, PERU, POLAND, REPUBLIC OF KOREA, RUSSIA, SPAIN, SWITZERLAND, THAILAND, TUNISIA, TURKEY, USA, VIETNAM

KOBOLD Instruments, Inc.
1801 Parkway View Drive
Pittsburgh, PA 15205
Main Office:
1.800.998.1020
1.412.788.4890
info@koboldusa.com
www.koboldusa.com

Description

The KOBOLD electrode relay type NE-5048 is used in conjunction with the conductive limit switches NEK, NEH, and LNK for level monitoring and level control of conductive liquids with a conductivity of more than 10 µS/cm.

Probes are immersed in the tank to detect the level. These probes (and the tank wall, if conductive) serve as contacts of a circuit. The probes can be single-rod or multi-rod probes (see also NEK, NEH, and LNK). The NE-5048 relay provides a limit value signal for connecting one control and one ground electrode.

It also includes a bistable interval relay with latching and is thus suitable for interval switching - e.g. for pump control (min./max. control).

Main Features

- MIN/MAX controller
- Selectable NO/NC relay function
- Adjustable sensitivity
- Adjustable delay time
- Adjustable delay ON and delay OFF time
- Delay time display
- AC/DC version

Technical Details

- Power Supply:** 24 - 240 V_{AC/DC}
(AC 50-60 Hz) -15%, +10%
- Power Consumption:** max. 2 VA / 1.5 W
- Electrode Voltage:** max. 3.5 V_{AC} 10Hz
- Sensor Current:** <0.1 mA AC
- Response Sensitivity:** 5 - 100 kΩ adjustable
- Response Time:** 400 ms
- Switch-on Delay:** 1.5 s
- Switch-off Delay:** 0.5 - 10 s adjustable
- Output:** 1 potential-free SPDT contact
- Switching Capacity:** max. 250 V_{AC}, 8 A, 2000 VA (AC). 240 W (DC)
- Housing:** Makrolon®
- Housing Protection:** IP 40
- Terminal Protection:** IP 10
- Ambient Temperature:** -4°F ... 131 °F
- Dimensions:** 90 x 17.6 x 64 mm
- Weight:** 73 g
- Mounting:** Quick mounting for standard rail DIN 60715
- Visual Indication of Operating Status:**
LED red Monitoring status
LED green Operating voltage

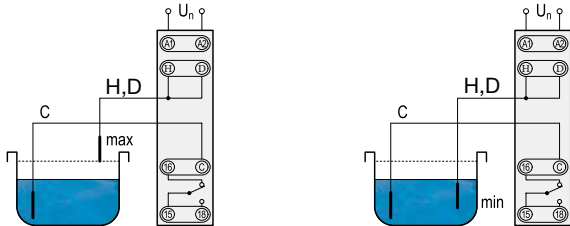
Order Details (Example: NE-5048)

Model	Description	Number of outputs	Power supply
NE-..	Electrode relay	..504.. = 1 limit signal or 1 Min./Max. controller	..8 = 24 - 240 V _{AC/DC}
Accessories: ACC-DINRAIL3X35 = 3" X 35 mm DIN rail accessory			

Operation

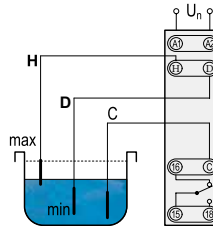
Liquid level switching

1 tank, 1 level



Liquid level monitoring

1 tank, 2 levels



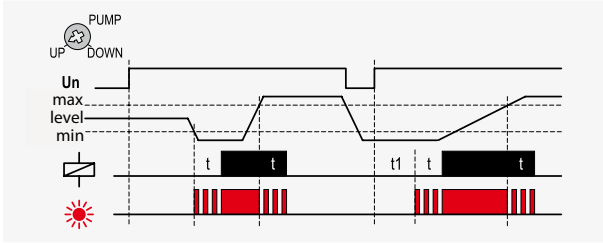
NE Switches

- A1, A2:** Power supply
- C:** Reference probe
- H:** Upper level probe
- D:** Bottom level probe

Operation (continued)

Dimensions (mm)

Filling



Emptying

