



Zertifiziertes
QM-System
DIN EN ISO 9001
Zertifikat-Nr. 01017

Electrode Relays for Conductive Limit Switches



measuring
•
monitoring
•
analysing



- For use with conductive electrodes
NES, NEW, NEH & LNK
- Limit signal
- Min./max. controller
- 230 V_{AC}, 110 V_{AC}, 24 V_{AC}



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Model:
NE-104,
NE-204,
NE-304



Description

KOBOLD electrode relays of type NE- are used with conductive level switches NES, NEH, NEW and LNK for level monitoring and control of conductive liquids.

An electrode relay NE-104 is required for single point signalling. It possesses additionally a bi-stable interval relay which lock and is therefore suitable for pump control.

With relay NE-304 and a level conductive switch with two signal and one ground electrodes, two level limits could be detected.

The relay outputs could be configured as a MIN./MAX. control or as a single limit switch.

The relay NE-204 is used together with the conductive level limit switch NEW for water contaminating liquids. This system complies with the requirements of the §19 WHG. It should be used for tanks and vessels for storage of non-flammable, water contaminating liquids.

Technical Details

NE-104, NE-304

Power supply:	230, 110, 224 V _{AC} ± 15 %; 50 - 60 Hz
Power input:	NE-104: approx. 2 VA NE-304: approx. 4 VA
Floating voltage:	approx. 10 V _{AC}
Short-circuit-current:	approx. 0.5 mA
Sensitivity:	adjustable 0 - 50 kΩ
Response time:	approx. 1 s
Output:	NE-104: 1 floating changeover contact NE-304: 2 floating changeover contacts
Switching capacity:	max. 250 V _{AC} , 5 A, 600 VA
Housing:	MacroLon
Protection:	Housing: IP 40 Terminals: IP 20
Ambient temperature:	-20 °C... +60 °C
Dimensions:	75 x 55 x 110 mm
Installation:	DIN rail mount or wall mount
Signalling:	LED red: monitoring state

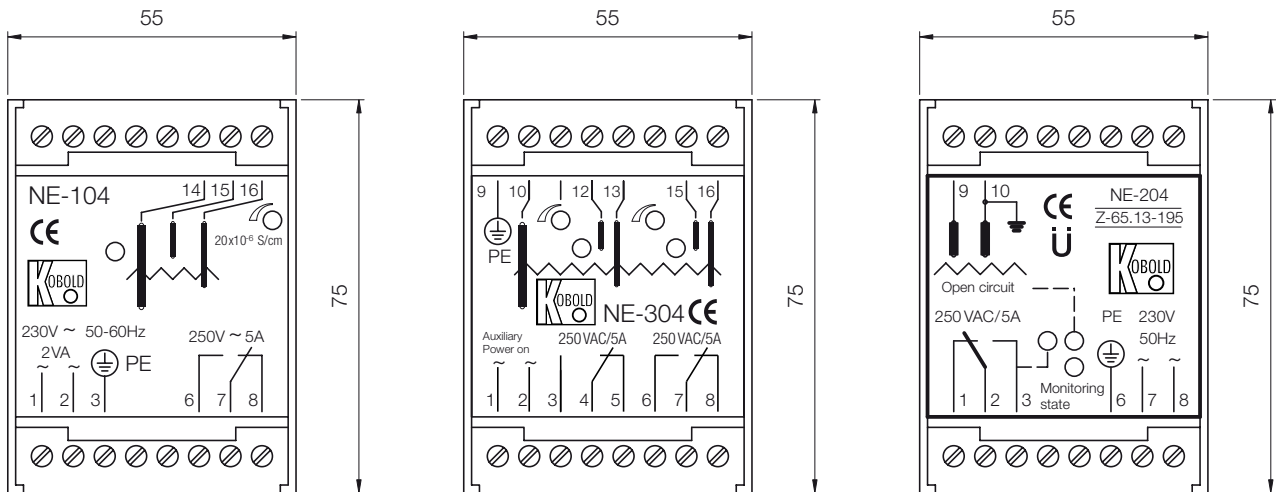
NE-204 according to § 19 WHG

Power supply:	24, 230 V _{AC} ± 15 %; 50 - 60 Hz
Power input:	approx. 2 VA
Floating voltage:	approx. 20 V _{AC}
Short-circuit-current:	approx. 4 mA
Sensitivity:	approx. 50 kΩ
Response time:	approx. 1 s
Output:	1 floating changeover contact
Switching capacity:	max. 250 V _{AC} , 5 A, 600 VA
Housing:	MacroLon
Protection:	Housing: IP 40 Terminals: IP 20
Ambient temperature:	-20 °C... +60 °C
Dimensions:	75 x 55 x 110 mm
Installation:	DIN rail mount or wall mount
Signalling:	LED green: auxiliary power on LED red: open-circuit LED yellow: monitoring state

Monitoring the mains supply by dropping out the switch contact.

Monitoring electrode lead by dropping out the switch contact, red LED lights up.

Dimensions



Order Details (Example: NE-104 0)

Model	Description	Number of outputs	Power supply
NE-	Electrode relay	<p>104 = 1 limit signal or 1 min/max controller</p> <p>304 = 2 limit signals or 2 min/max controller</p> <p>204 = 1 limit signal acc. to § 19 WHG</p>	<p>0 = 230 V_{AC}</p> <p>1 = 110 V_{AC}*</p> <p>2 = 24 V_{AC}</p>

*Not with NE-204

N1

**For Details on Analytical Measurement,
pH, ORP, Conductivity...**



...please refer to our brochure »A1«

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