



- relay for conductive level limit value detection
- WE-housing
- response sensitivity adjustable
- measuring circuit according to VDE 0100 Part 410 "Funktionskleinspannung"
- minimum - maximum - control possible

**Standard**

- HR-101121  
Sensitivity, 25 kΩ fixed
- HR-101125  
Sensitivity, 2 ... 30 kΩ
- HR-101126  
Sensitivity, 6 ... 150 kΩ
- HR-101155  
Sensitivity, 2 ... 30 kΩ, fall delay
- HR-101156  
Sensitivity, 6 ... 150 kΩ, fall delay

**Open circuit / closed circuit current principle**

- HR-101325  
Sensitivity, 2 ... 30 kΩ
- HR-101326  
Sensitivity, 6 ... 150 kΩ

**Function principle**

The relays provide the A.C. measuring voltage for the electrodes and react with a small alternating current after the electrodes getting in contact with the medium.

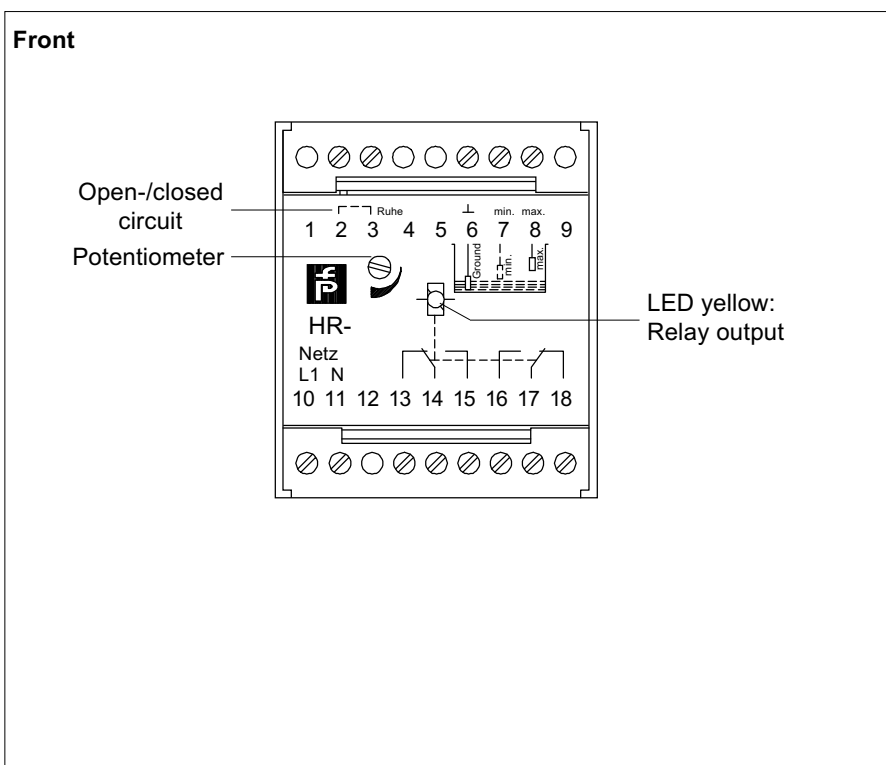
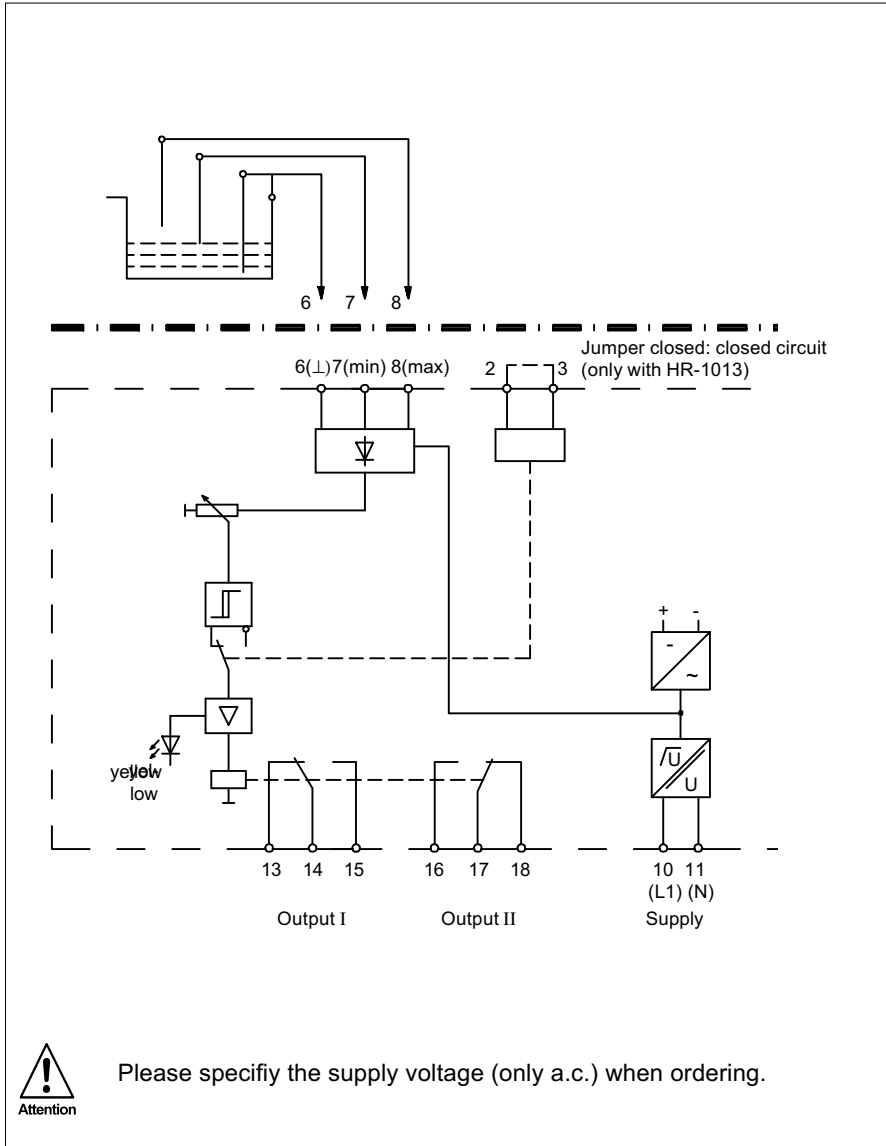
The switching amplifiers are voltage and temperature stabilized and guarantee a defined switching characteristics.

An electronic holding contact allows a minimum-maximum-control. Since the conductance of the media may vary, the relay response sensitivity is adjustable.

**Open circuit / closed circuit current principle**

HR-1013□□ switchable with an insulated jumper at the terminals 2-3; Jumper 2-3= closed circuit: After turning on the supply the relay rises directly and falls back, if a current flows between terminals 6 and 8.

HR10115□ - output fall delayed



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Technical data	HR-1011 □□	HR-10132 □
<b>Response sensitivity</b> HR-10□□□1 HR-10□□□5 HR-10□□□6	25 kΩ fixed 2 ... 30 kΩ adjustable via potentiometer 6 ... 150 kΩ adjustable via potentiometer	- 2 ... 30 kΩ adjustable via potentiometer 6 ... 150 kΩ adjustable via potentiometer
<b>Fall delay</b> HR-10115□ all other types	ca. 1 s non	
<b>Power supply</b> Nominal voltage Power consumption	Terminals 10 (L1), 11 (N) AC 230 V , AC 24 V or AC 115 V, (48 ... 62 Hz) ca. 1.5 VA	
<b>Input / measuring circuit</b> Voltage Current	Terminals 6 (Ground), 7 (min), 8 (max.) AC 24 V ca. 2 mA	AC 2 V ca. 0.25 mA
<b>Output</b> Contact rating	2 changeovers, terminals 13, 14, 15 and 16, 17, 18 AC: 250 V / 4 A; DC: 110 V / 0.5 A	
<b>Mechanics</b> Design Mounting	Standard housing out of Polysterene B/H/T 60/70/110 mm 2 bores according to DIN 43 604, standard mounting rail DIN EN 50022	
<b>Protection class acc. to DIN 40 050</b>	Housing IP 40, terminals IP 20	
<b>Environmental conditions</b> Temperature	-20 °C ... +60 °C (253 K ... 333 K)	

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