

# Insulation Monitors for Ungrounded DC Systems / Earth fault

EFR-24V2P

ARAYA

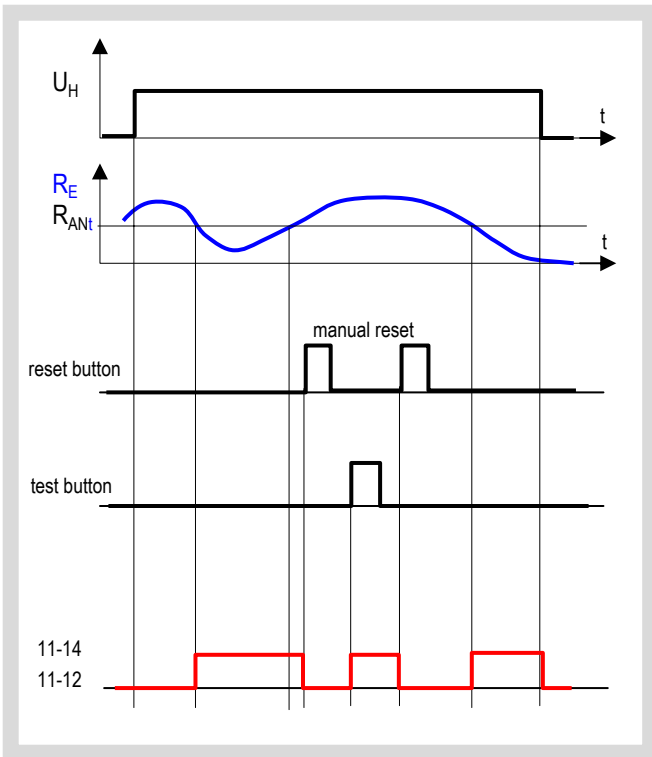


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- According to IEC/EN 61 557
- For DC - voltage systems, IT-system
- Without auxiliary supply
- Variable response value  $R_{AN} = 10 - 110 \text{ K}\Omega$
- LED indicator for power on
- LED indicator for ground fault
- 2 changeover contact
- Closed circuit operation
- Test button to check the function of the device
- Reset button
- DIN rail mounting
- Height 110 mm
- Width 50 mm
- Depth 75 mm

## Function diagram



## Technical data

### Measuring circuit

<b>Nominal voltage <math>U_N</math></b>	: DC 24V
<b>Voltage range</b>	: 0,8.....1,1UN
<b>Response value <math>R_{AN}</math></b>	: 10K $\Omega$ to 110K $\Omega$
<b>Setting <math>R_{AN}</math></b>	: adjustable from 10K $\Omega$ to 110K $\Omega$
<b>Internal test resistor</b>	: 9,1 K $\Omega$
<b>Measuring voltage</b>	: DC 24V
<b>Max. measuring current</b> ( $R_E = 0$ )	: < 25mA
<b>Max.permissible noise</b>	
DC voltage	: DC29V
<b>Operate delay</b>	
$R_E$ from $\infty$ to $0,9 R_{AN}$	: < 0,3s
$R_E$ from $\infty$ to 0 k $\Omega$	: < 0,3s
<b>Hysteresis</b>	
at $R_{AN} = 50\text{k}\Omega$	: Approx. 5 %
<b>Measuring error</b>	
at $R_{AN} = 50\text{k}\Omega$	: < 10%
	ambient temperature 0° .... 60°C, within the permitted voltage range
<b>Nominal consumption</b>	: approx. 2,5 VA

### Output

#### Contacts

EFR -24V2P	: 2 Changeover Contact
<b>Max.switching voltage</b>	: AC 250V
<b>Thermal current <math>I_{th}</math></b>	: 5 A Continuous

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All technical data in this list relate to the state at the moment of edition. We reserve the right for technical improvements and changes at any time.

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