ELR SERIES EARTH LEAKEGE RELAY

The ELR Earth Leakage Relay enhances electrical safety by continuously monitoring leakage current with advanced residual

current transformer. When leakage current exceeds the preset

threshold, it instantly triggers an alarm for early fault detection.

Featuring an alarm hold function, it retains the alarm signal until

reset, simplifying fault diagnosis. Ideal for preventing equipment

damage, reducing downtime, and ensuring personnel safety, the ELR Series provides reliable and efficient protection for your power

· Use for AC measurement

· Use for DC measurement

Compatible with Residual current transformerAdjustable alarm threshold 30mA-3A.

· Compatible with Hall effect current transformer

FEEDER PROTECTION AND CONTROL





i Main Features

- Digital measured value display via LCD display;
- · Current transformer connection monitoring;
- Internal/external test/reset button;
- One separate alarm output relays;
- · Adjustable trip levels and time delay;
- Standard 35mm din rail mounting;
- 30mA-3A adjustable response values;

i Applcation

- · Smart grid system;
- Medium and low voltage systems;
- · Commercial and residential buildings;
- · Utilities and power distribution systems;
- · Motor control panels and switchboards;
- · DC system leakage current measurement;
- · Industrial control system (PLC, SCADA, DCS).



Ordering Information

Description

Introduction

system.

Model

ELR-4MA

ELR-4MD



ELR-4MA



ELR-4MD



i Technical Characteristics

Parameter	ELR-4MA	ELR-4MD
Auxiliary power supply	85-265Vac/dc	
Power consumption	≤4VA	
Frequency	50/60Hz, Accuracy ±0.01Hz	
Leakage current alarm threshold	30mA-3A, can be set	
Time delay	50ms-10sec, can set as need.	
I/O capacity		
Digital input	2^* DI for reset/ test, NC dry contact, Ri<500 Ω turns on, Ri>100k Ω turns off	
Digital output	1* relay NO for safety; 1* relay NC for alarm; Load capacity: 5A@250VAC	
Others		
Communication	RS-485 MODBUS-RTU	
Display	LCD with backlit	
Withstand voltage	2.5KV 1min	
Insulation	Input, output, power supply to shell >5M Ω	
Storage environment	-40~70°C	
Working environment	-25~55°C Altitude ≤2500m,0~95%RH, non-condensing, non-corrosive gas	

