

# KEW SAFE LINE SERIES

## PRODUCT 2.4: - *EARTH LEAKAGE RELAYS*



**S-ELR+**



**D-ELR+**

### DESCRIPTION

The **S-ELR+ and D-ELR+ Earth Leakage Relays** are advanced protection devices designed to detect leakage current from 10mA to 30A with high accuracy ( $\pm 0.5\% \pm 1$  digit). They feature a digital display (7-segment in S-ELR+, LCD in D-ELR+) and operate with auto/manual reset modes. The relay supports wide auxiliary supply ranges (45–270V AC/DC or 90–440V AC/DC). Key functions include **trip indication, test/reset button, delay time programming, and LED fault indication**. The product is suitable for panel mounting with a compact design and supports optional RS485 & MODBUS and **2 relay outputs for contactor tripping**. Complies with IEC 62020 and other safety standards.

### Features Of Earth Leakage Relay

<b>Relay Type</b>	Digital Earth Leakage Relay (Available in Segment & Dot Matrix Display Variants)
<b>Measured Parameters</b>	Earth Leakage Current (10mA – 30A, Settable), Imbalance Current
<b>Smart Display &amp; Navigation</b>	1 Row of 3/4 Digit LED Display (Model-wise), LED Trip Indication, Fault & Delay Status, CT Open Indication
<b>Phase Sequence Protection</b>	Yes – Ensures correct phase sequence detection (applicable for 3Ø system)
<b>Communication &amp; Features</b>	RS-485 MODBUS RTU (Optional), Two Relay Outputs (Optional), CICT Slot for Plug-in CTs, Delay Time Programmable



## SPECIFICATION OF Earth Leakage Relay

### Electrical Characteristics: -

<b>Meter Type</b>	Detects Earth Leakage current and trips the relay to prevent electric shock.
<b>Trip Current Range</b>	<b>10mA – 30A</b> (Settable) <b>Trip Delay-</b> 100ms – 5000ms (Settable)
<b>Relay Output</b>	1 Relay Output (2A @ 250V AC), for tripping or alarm signalling
<b>Auxiliary Supply</b>	45–270V AC/DC or 90–440V AC/DC (Dual supply)
<b>CT Secondary</b>	5A (Compatible with CBCT)
<b>Output Relay</b>	1 C/O, 8A / 250V AC, Potential Free
<b>Relay Contact</b>	8AMPS/16AMP, 250V AC POTENTIAL FREE

### Environmental Characteristics: -

<b>Operating Temperature</b>	–10°C to +55°C
<b>Storage Temperature</b>	-10°C to 60°C

### Mechanical Characteristics: -

<b>Mounting Type</b>	Panel Mount
<b>Panel Dimensions</b>	S-ELR+:-(96X96) D-ELR+:-(95X35)

### Display Characteristics

<b>Display Type</b>	S-ELR+-- (3 Digit 7-Segment RED LED Display) D-ELR+ -- (4 Digit RED LED Display)
<b>Indications</b>	Error Code Display, Fault LED Indicators

## APPLICATIONS OF Earth Leakage Relay

### Distribution Panels for Commercial Buildings



### UPS & IT Server Power Panels



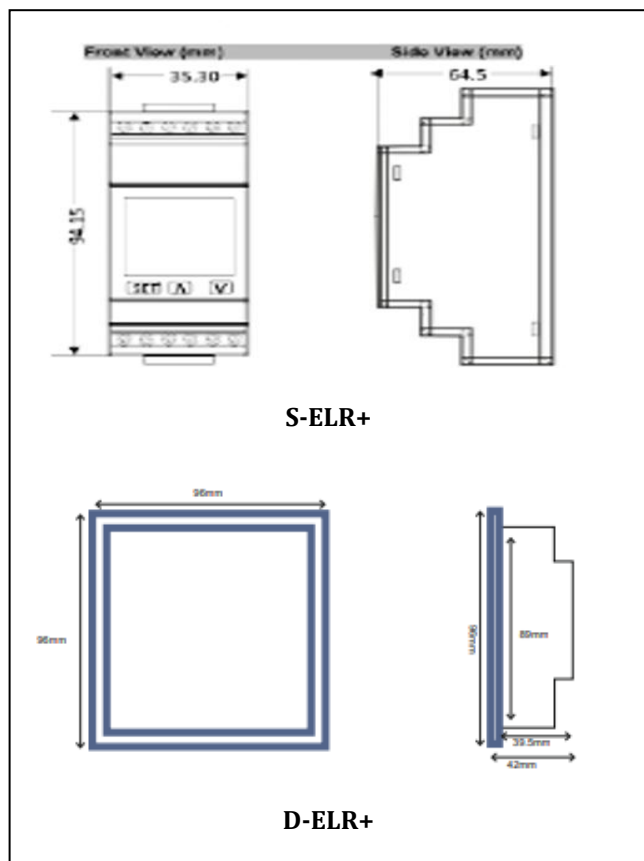
### Industrial MCC Panels with Dual Feeders



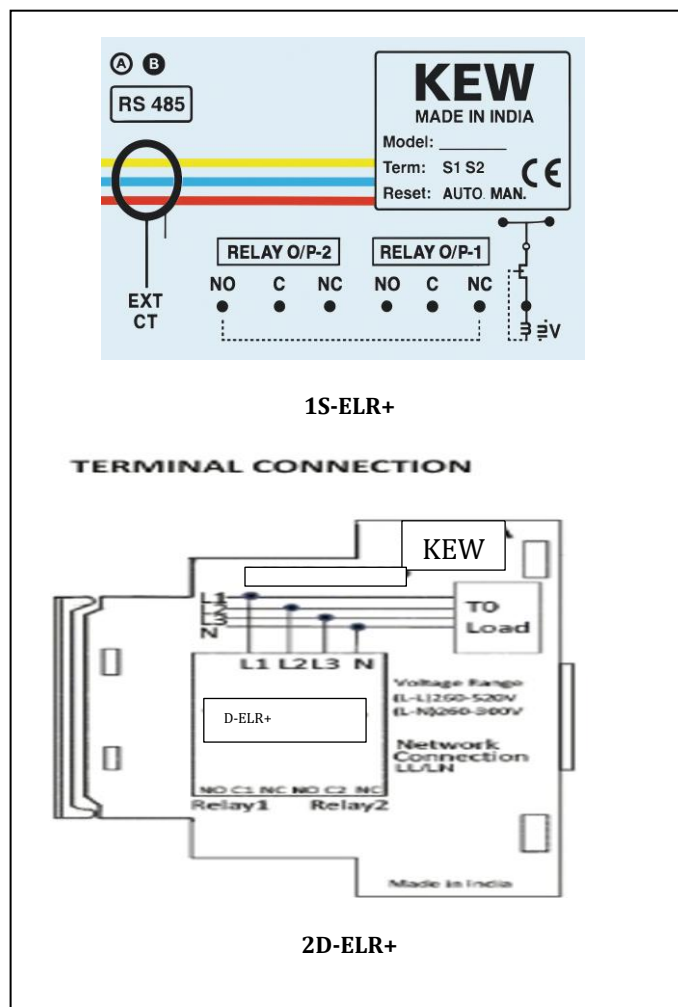
### Solar Inverter & Battery Bank Installations



## Panel CutOut



## Terminal Connection



## Ordering information:

MODEL	Display & Protection	ACCURACY CLASS	AUX SUPPLY
<b>S-ELR+</b> Single Channel Earth Leakage Relay	IMBALANCE CURRENT	$\pm 0.5\%$	45–270V AC/DC, 90–440V AC/DC
<b>D-ELR+</b> Dual Channel Earth Leakage Relay	IMBALANCE CURRENT	$\pm 0.5\%$	45–270V AC/DC, 90–440V AC/DC

**\*WHILE ORDERING PLEASE MENTION RANGE, CLASS & AUX SUPPLY & FOR BULK CUSTOMIZED INQUIRIES**