

PROTIME[®]



DC Earth Leakage Relays

ELR-1D

Special Features



- Available with Auto/Manual Reset & test facility .
- Compact & smart design to fit on any standard mounting channel.
- Total Wireless interiors makes it highly rugged & error proof.
- Choice of Self powered Relays
- Calibrated scale with $\pm 5\%$ Accuracy & Indications for Healthy, Faulty & Relay ' ON'.

Technical Data

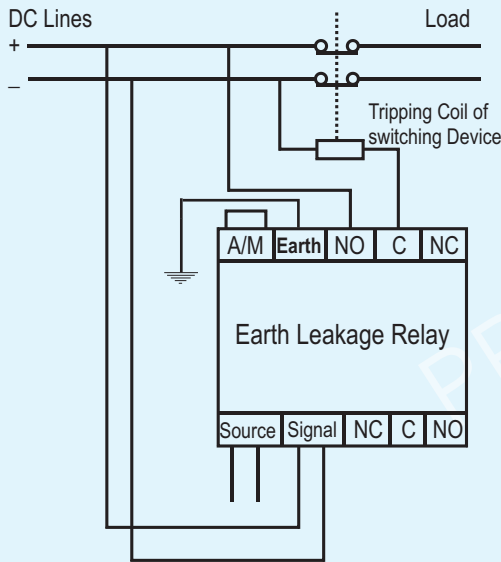
- | | |
|--------------------------|--|
| 1) Supply Voltage | - 90-270V AC/DC or 12 / 24V/48V DC. |
| 2) Output Contacts | - Two change over (Potential Free) |
| 3) Switching duty | - 6A resistive at 24V DC or 240V AC. |
| 4) Signal | - From Battery Terminals & Earth
(12V,24V,48V,110V,220V,300VMax.) |
| 5) Time delay (optional) | - 0-10 secs. Settable |
| 6) Reset | - Auto/Manual resetting facility. |
| 7) Setting Accuracy | - $\pm 5\%$ of Full Scale. |
| 8) Mounting | - On any standard mounting channel. |
| 9) Dimension | - 77mm(W) X 90mm(H) X 110mm(D). |

OPERATION

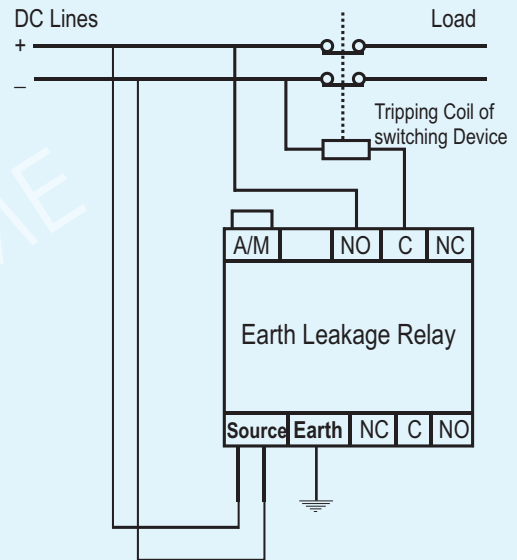
The relay senses the DC Earth leakage current for any equipments like Switch boards, Rectifiers, Battery Chargers by sensing Resistance between Positive- Negative Terminals of DC System & earth. Thus leakage current if any will be dependent on the resistance value between respective terminals, Higher the resistance , lower is the leakage current & vice versa. Lower resistance results in to loss of life or damage to equipment. PROTIME's Earth leakage relay senses leakage current through Resistor Bridge & energizes relay when Resistance value goes out of the range selected on the dial. The Relays are provided with user settable (0-10Sec) time delay .

Connection Details

ELR in DC System with AC Auxiliary Supply



ELR in DC System with self Supply (12V/24V)



How To Order ELR-D?

Ordering Pattern-

ELR96-D/i - S - C - 30S - 3

Series

ELR-D : DC Earth Leakage Relays in channel mounting Enclosure

ELR96-D/i :DC Earth Leakage Relays in 96 Sq.mm Enclosure with Fault Current Indicator

* Any Range as per requirement can be made.

system Voltage(DC) Range

1 -12V
2-24V
3-48V
4-110V
5-220V
S-Specified

*A-10K-1K

Supply

1-90-270V AC/DC
2-12V DC
3-24V DC
4-48 V DC

Time Range

10s-upto-10 secs.
30s- "-30 secs.
60s- "-60 secs.

Under development

Note:- Design & specification may change to our continuous developmental efforts