



High Sensitivity Earth Leakage Relay for high-risk applications



High-risk applications such as **Petrochemical, Hospitals and Swimming Pools** require Earth Leakage Relay protection that can be set as low as **6mA**. The **ELR01PN** relay is ideal offering sub 30mA sensitivity settings to provide protection against electric shock in these sensitive environments. The relays are used in conjunction with a separate toroid/ZCT and require a switching contactor or breaker to remove the supply to the load.

Key features:

- Adjustable sensitivity with **6mA and 10mA** settings available
- **NFC** technology allows for quick and easy setup of device using app in a few simple steps
- Selectable **frequency filter** ensures tripping only occurs on genuine leakage currents
- Suited specifically for socket outlets, distribution panels and outgoing feeds to critical areas
- Protected against nuisance tripping



Further features:

- Adjustable time delay up to 10s*
- Auto-reclosure option for unmanned locations
- **Type A** tripping characteristics
- Compliant with **IEC 60947-2 / Annex M[^]**
- Single button operation for Test and Reset
- Configurable SPNO and SPDT relay outputs
- Multi-voltage power supply

Offering the benefits of **Near Field Communication (NFC)** technology, the user can access (amongst other features) a frequency filter using the app to change the cut-off point and therefore ensure the ELR only trips on genuine leakage currents. This feature is key where settings as low as 6mA are required in highly disturbed environments.

The app also allows for the user to monitor their application by taking and displaying live leakage current measurements that are currently present in the system. This feature is useful for both setting up of the product, general monitoring and also fault finding.

* $I_{\Delta n}$ settings $\leq 30\text{mA}$ default to instantaneous tripping regardless of actual setting on the ELR. Response time: $<25\text{ms}$ @ $5 \times I_{\Delta n}$

[^] IEC 60947-2 / Annex M allows a maximum tripping time of 40ms @ $5 \times I_{\Delta n}$. The response time of the external contactor/circuit breaker should be taken in to account when selecting.



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