





# **Earth Leakage Relays**

## ELR01PN & ELR30PN

# Type A with programmable user settings using NFC

- Selectable Trip level and Time delay using front mounted adjustments
- Additional programmable user settings/adjustments
- Built-in NFC (Near Field Communication) allows user to access and change settings via compatible Smartphone with installed app^ as well as retrieve historical data
- Two ranges available 6mA 1A (ELR01PN) and 30mA 30A (ELR30PN)
- True R.M.S. measurements
- Option to select alternative toroid ratio, tripping method (latch or auto-reclosure modes), output relay logic (pre-alarm, energise or de-energise on trip) and filter cut-off points
- **Connection facility for remote "Test" and "Reset" push buttons or N.O. contacts**
- Toroid open and short-circuit detection forces unit to trip
- **2** Relay outputs Relay 1 (SPDT) and Relay 2 (SPNO) User configurable
- □ Wide auxiliary operating supply voltage 24 230V AC/DC
- LED indication for supply, leakage current and trip status
- Compliant with IEC 60947-2 / Annex M



Dims: to DIN 43880 W. 44mm



#### **ELRO1N & ELR30N** Type A with programmable user settings using NFC

- Programmable user settings/adjustments
- Built-in NFC (Near Field Communication) allows user to access and change settings via compatible Smartphone with installed app^ as well as retrieve historical data
- Two ranges available 6mA 1A (ELR01N) and 30mA 30A (ELR30N)
- True R.M.S. measurements
- □ Option to select alternative toroid ratio, tripping method (latch or auto-reclosure modes), output relay logic (pre-alarm, energise or de-energise on trip) and filter cut-off points
- Connection facility for remote "Test" and "Reset" push buttons or N.O. contacts
- Toroid open and short-circuit detection forces unit to trip
- **2** Relay outputs Relay 1 (SPDT) and Relay 2 (SPNO) User configurable
- □ Wide auxiliary operating supply voltage 24 230V AC/DC
- LED indication for supply, leakage current and trip status
- Compliant with IEC 60947-2 / Annex M

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ELR30N Earth Leakage Relay	● 75 UV71 × %	Contraction of the second	
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Dims: to DIN 43880 W. 44mm

App available from:

#### **ELRO1P & ELR30P** *Type A with selectable trip and time delay settings*

- Selectable Trip level and Time delay using front mounted adjustments
- Two ranges available 6mA 1A (ELR01P) and 30mA 30A (ELR30P)
- True R.M.S. measurements
- □ Single, combined "Test/Reset" push button
- Connection facility for remote "Test" and "Reset" push buttons or N.O. contact
- Toroid open and short-circuit detection forces unit to trip
- **2** Relay outputs Relay 1 (SPDT) and Relay 2 (SPNO)
- □ Wide auxiliary operating supply voltage 24 230V AC/DC
- LED indication of Supply status and fault condition after unit has tripped
- Compliant with IEC 60947-2 / Annex M



Dims: to DIN 43880 W. 44mm

## **Earth Leakage Relays**

#### ELRM44V & ELRM44F

#### Type A with selectable or fixed trip and time delay settings

- True R.M.S. measurements
- Designed to monitor and detect earth fault currents in conjunction with a separate Toroid (CBCT)
- LED bargraph provides constant indication of any leakage current (ELRM44V)
- Microprocessor controlled with internal monitoring (self-checking)
- □ Selectable Trip level (I△n) 30mA to 30A and Time delay 0 (inst.) to 10s (ELRM44V)
- □ Fixed Trip level (I△n) 30, 100 or 300mA and Time delay 0 (inst.) (ELRM44F)
- □ Separate "Test" and "Reset" push buttons
- Connection facility for remote "Test" and "Reset" push buttons or N.O. contacts
- Toroid open circuit detection forces unit to trip (Red LED flashes during this condition)
- Relay outputs -
  - ELRM44V (x2) Standard Output (S.O.) and Positive Safety Output (P.S.O.) ELRM44F (x1) - Standard Output (S.O.)
- LED indication of Supply status and fault condition after unit has tripped Note: Auto-reclosure version also available Type: ELRM44V-30A

#### ELRP48V

#### Type A with selectable trip and time delay settings

- True R.M.S. measurements
- Panel mounting with pluggable connectors located at the rear of the unit and supplied with mating, re-wireable sockets
- Designed to monitor and detect earth fault currents (up to 30A) in conjunction with a separate Toroid (CBCT)
- LED bargraph provides constant indication of any leakage current
- Microprocessor controlled with internal monitoring (self-checking)
- □ Selectable Trip level (I△n) 30mA to 30A
- □ Selectable Time delay (△t) 0 (instantaneous) to 10 seconds
- Separate "Test" and "Reset" push buttons
- **Connection facility for remote "Test" and "Reset" push buttons**
- Toroid open circuit detection forces unit to trip (Red LED flashes during this condition)
- **2** Relay outputs Standard Output (S.O.) and Positive Safety Output (P.S.O)
- LED indication of Supply status and fault condition after unit has tripped

### **ELR-IF** Type A with integral toroid, fixed trip and time delay setting

- True R.M.S. measurements
- DIN Rail or Surface mount enclosure
- Integral Toroid 25mm Ø
- Designed to monitor and detect earth fault currents
- Protected against nuisance tripping
- Microprocessor controlled
- □ Three versions available 30mA (instantaneous), 100mA (100mS) or 300mA (100mS)
- □ Separate "Test" and "Reset" push buttons
- SPDT relay output 5A
- Green LED indicates presence of power supply
- Red LED indicates fault current is >50% of I∆n if flashing, or relay has tripped if permanently illuminated



Dims: W. 70mm H. 110mm D. 37mm



Dims: W x H. 48 x 48mm L. 96mm

Dims: to DIN 43880 W. 44mm

# **BZCT Toroids (CBCT)**



