

PROTIME®



N96 Digital Earth Leakage Relay

N96D-ELR /i

Special Features

- Programmable Digital ELR with LCD display having NORMAL & FAIL SAFE modes
- User Selectable active Inverse Characteristic with 0.1Sec to 30Sec Time delay settings
- Designed using TRUE RMS 24 bit accuracy Measurement Technology
- Real Time Dynamic BAR GRAPH on Display
- Dual Set Point selectable tripping ranges (Pre-Alarm & TRIP)
- WIDE RANGE of Trip Settings from 10mA to 30A
- RS 232/485 output-(Optional)
- 0-5V Analog output-(Optional)
- Wide power supply range from 90-270V AC/DC

Technical Data

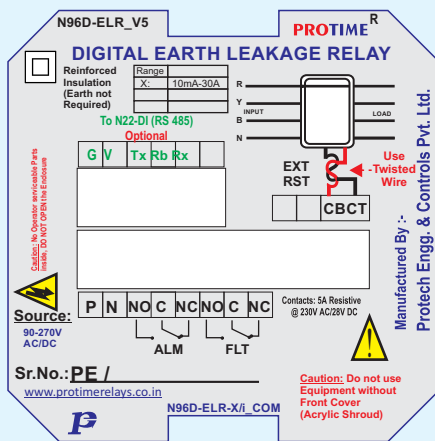
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|--------------------------|--|
| 1) Supply Voltage | - 90-270V AC/DC, 5 VA(Max) |
| 2) Output Contacts | - Two change over (potential free) Pre-Alarm / TRIP |
| 3) Switching duty | - 6A resistive at 250V AC or 24V DC |
| 4) Electrical Life | - 10 ⁵ operation at designed switching duty |
| 5) Relay Status | - Normal - De-energised in normal conditions
Fail Safe - De-energised in fault conditions |
| 6) Signal | - From CBCT |
| 7) Range | - X : 10mA-30A |
| Hysteresis | - 1% -10% (common for ALM & FLT) |
| 8) Time Delays | - Trip 0.1 - 30 Sec in steps of 100ms** |
| 9) Mode of operation | - Normal / Fail Safe (User Selectable) |
| 10) Reset | - User selectable Auto/Manual Reset |
| 11) Mounting | - Panel Mounting (Flush) CUTOUT=92 X 92mm |
| 12) Approximate Weight | - 200gm |
| 13) Dimension | - 96mm(W) X 96(H) X 80mm(D) |
| 14) ENCLOSURE: | - ABS Type = N96 |
| 15) Operating Temp & RH: | -10°C, +55°C up to 80% |
| 16) Operating Temp & RH: | -10°C, +55°C up to 80% |
| 17) Storage Temp. & RH: | - 25°C, + 70°C up to 95% |

** Any specific time delay can also be provided on request from Minimum 25mSec.

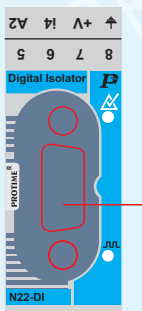
OPERATION

Protime's New Digital Earth leakage relay senses the Earth leakage current for any equipments using 24 bit digital technology. It checks the CBCT initially & if found healthy, will monitor leakage Current & energises relay when current goes out of the range selected. The range of tripping & Time delay is user programmable on Display. Protime's Digital Earth leakage Relays comes with dual set point and dual relay output. This relays are flexible for user to select the Mode of Operations like Normal or Fail Safe and Auto/Manual RESET of both or any relays. The Digital ELR also has facility to enable or disable Inverse Tripping time curve @ 5X of Set current range. It also has an option of RS232/485 Connectivity or Analog Signal proportional to Fault Current value in terms of 0-5V.

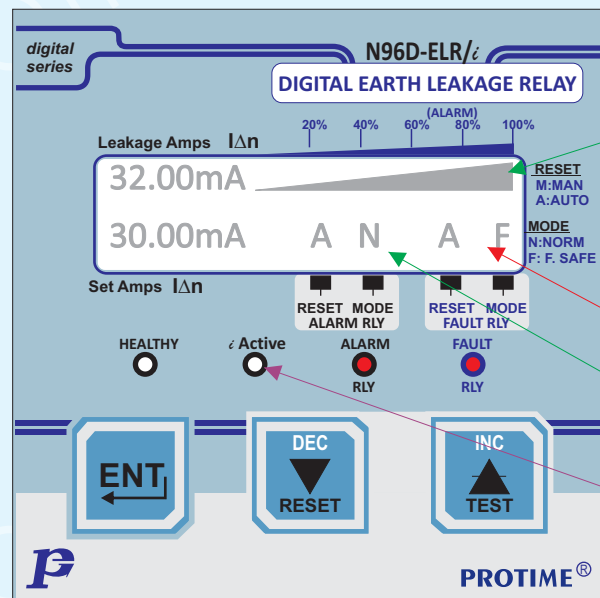
Connection Details



N22-DI (COM-Optional)

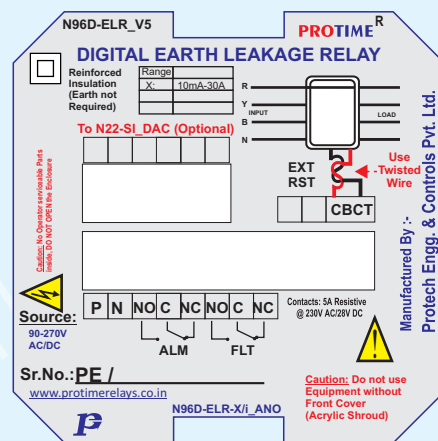
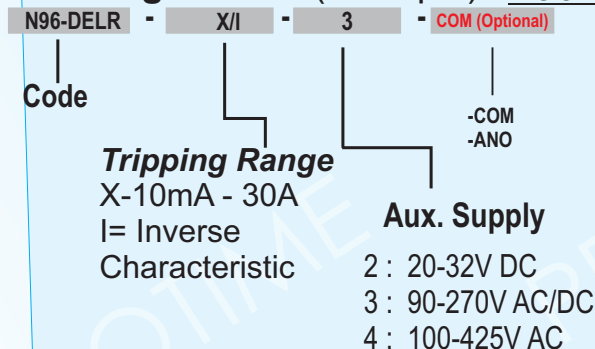


TO PC (Modbus)

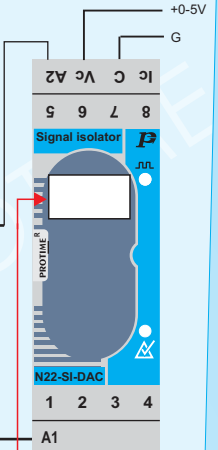


HOW TO ORDER ?

Ordering Pattern (example)- N96D-ELR-X



N22-DI_DAC (ANO_Optional)



FROM N96D-ELR-X/I_ANO (Analog O/P)