



# iTheft

## Cable Anti-theft Sensor

### Description

TST's iTheft is a cable anti-theft alarm which monitors the condition of multi-loop cabling throughout the day. The two iTheft components work in conjunction with one another as part of the overall circuit.

**A** iTheft anti-theft main controller

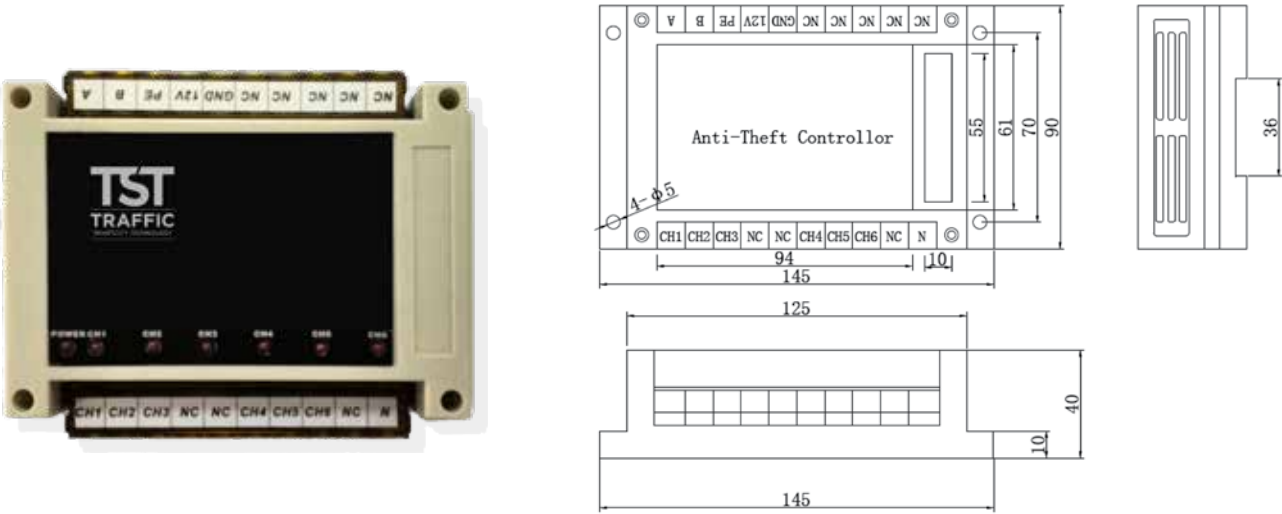
**B** iTheft PLC based terminal

### Features

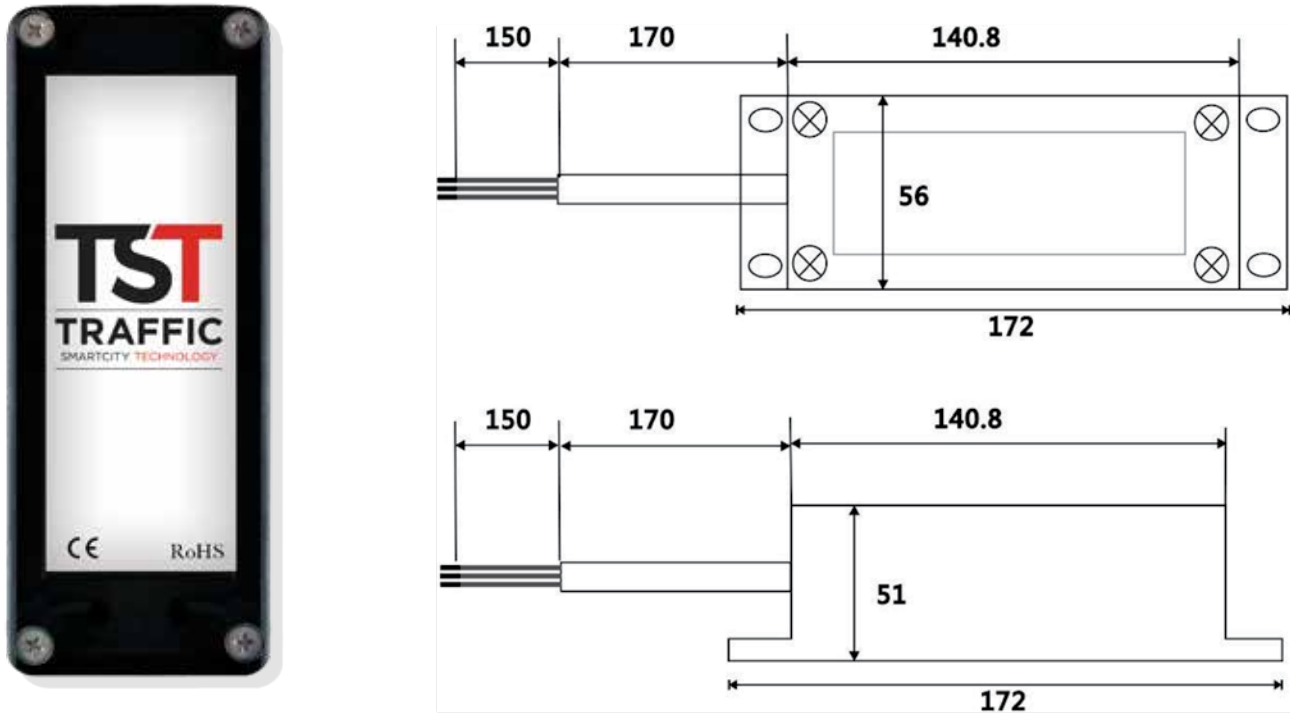
- Cable monitoring and anti-theft alarm function
- Easy to install
- The iTheft Controller has an LED indicator which shows the cables' status
- 6 lines of cable circuit monitoring
- Communicates with concentrator by asynchronous half-duplex RS-485
- AC input
- Single or 3 Phase Circuits
- PLC communication mode:
  - Meets with intelligent control circuit monitoring



A      iTheft Controller



B      iTheft Terminal



## Basic Parameters

| PRODUCT             |                           | iTheft            |                 |
|---------------------|---------------------------|-------------------|-----------------|
| MODEL               |                           | iTheft Controller | iTheft Terminal |
| DC input Parameters | Voltage Range             | DC12V             | –               |
|                     | Voltage Range             | –                 | 176V~242VAC     |
| AC Input Parameters | Frequency Range           | 47~63Hz           | 47~63Hz         |
|                     | Static Power Consumption  | 0.5W              | 1W              |
|                     | Dynamic Power Consumption | 8W                | 7W              |
|                     |                           |                   |                 |

## Working Environment

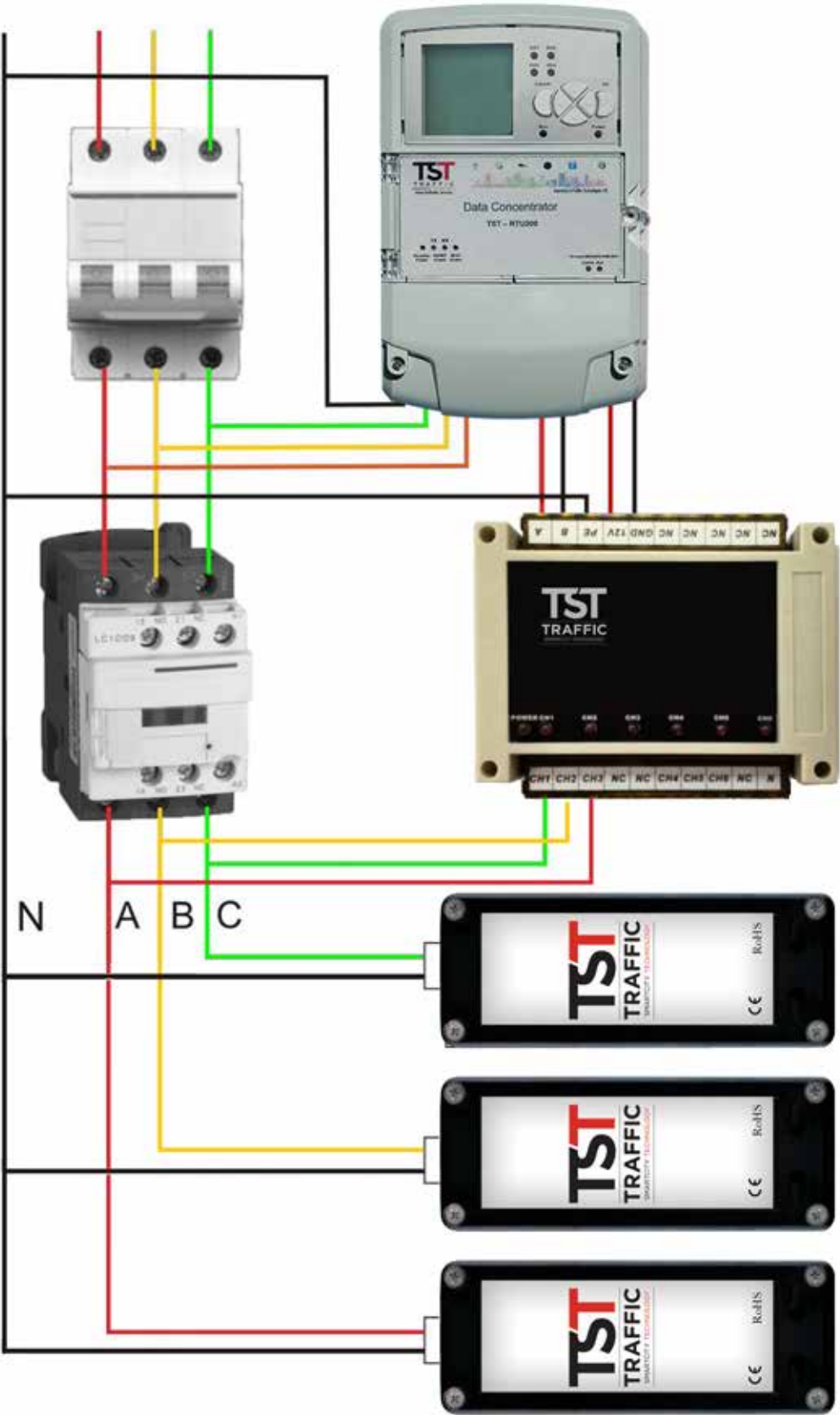
| PRODUCT           | iTheft                        |                     |
|-------------------|-------------------------------|---------------------|
| MODEL             | iTheft Controller             | iTheft Terminal     |
| Temperature       | -25°C ~ +85°C                 | -25°C ~ +85°C       |
| Relative Humidity | 25% ~ 85%<br>Non Condensation | 5% ~ 95%            |
| IP Rating         | –                             | IP67                |
| Dimensions        | 145mm x 90mm x 40mm           | 172mm x 56mm x 51mm |

## Communication Specification

| PRODUCT                  | iTheft                                                                                    |                                                |
|--------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------|
| MODEL                    | iTheft Controller                                                                         | iTheft Terminal                                |
| Alarm Mode               | Concentrator Query                                                                        | Concentrator Query                             |
| Alarm Mode               | Concentrator detects that the impedance value under the value that is set in the software | Concentrator cannot detect anti-theft terminal |
| Detection Time           | No AC power supply                                                                        | AC power supply                                |
| Communication Mode       | RS-485                                                                                    | Power line Communication (PLC)                 |
| Communication Format     | Modbus                                                                                    | BPSK                                           |
| Carrier Centre Frequency | –                                                                                         | 132KHz                                         |
| Communication Rate       | 9600 bps                                                                                  | 5500 bps                                       |



iTheft anti-theft wiring diagram







## TST

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