



## IPS Core Transformers - Product Specification



The core transformer is used on the final circuits of an IPS system. Each outgoing circuit has a core transformer on it, with both of the conductors passing through the core of the transformer. The core transformer is used in conjunction with the Starkstrom earth detection system (EDS) search signal generator (SSG) to locate the insulation faults when they occur on an IPS circuit.

The SSG sends a pulse of less than 1mA on both of the output phase conductors and evaluates the CT for a frequency response within the range of 4.5 – 7kHz. A faulty circuit will have an insulation resistance drop that will provide a different frequency fault response to the other healthy circuits.

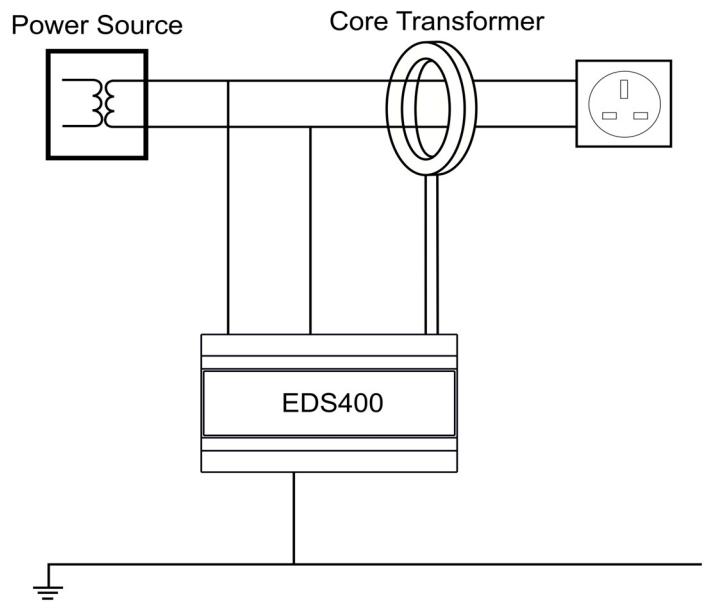
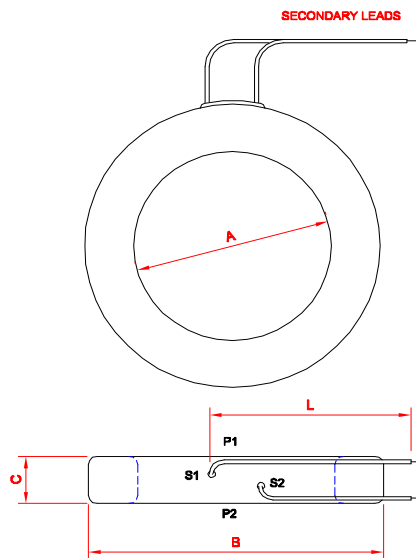
The EDS will then register and report, which circuit the insulation fault is located on, to the remote alarms / surgeons' theatre control panel.

The Core transformer conforms to the following standard - BSEN60044-1:1999.

| Specification          |                      |
|------------------------|----------------------|
| Type                   | Type R/L Transformer |
| Ratio:                 | 15/0.025             |
| External Dimension (B) | 45                   |
| Internal Dimension (A) | 25                   |
| Thickness (C)          | 19                   |
| Lead Length (L)        | 1800                 |

OUTLINE DRAWING  
Type R/L Current Transformer

Dimension in mm 6/08/04



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