

## General description

### Current sensing unit

Arc Guard  
Systems

#### Description

- Has terminals for a number of different supply voltages.
- Connects to current transformers located at suitable positions in the busbar system of the installation to be monitored.
- The unit incorporates a selector switch and potentiometer for testing and checking purposes.
- Power consumption is approximately 11 W.
- Optical signal transmission
- If several current sensing units are needed, these can be connected in series using optical cables.
- LEDs indicate when the current exceeds approximately 70% and 100% of the set value.

#### Connection to current transformers

The unit is to be connected to current transformers with a rated secondary current of 1, 2 or 5 A .

*Note that current transformers for relay protection are to be used since these do not saturate as quickly as ordinary current transformers. To minimize the operating time, the current transformers should not saturate until twice the set current has been reached.*

The unit can be either 1, 2 or 3-phase connected (to one, two or three current transformers). However, in three-phase systems single-phase connection should be avoided. Even though arcs generally spread to all three phases, valuable time may be lost before the current rises to the trip value if the arc is struck in one of the phases in which the current is not sensed by the unit.

The unit imposes insignificant load on the current transformers, approximately 0.7 VA, so current transformers that are also applied for other purposes can often be used.



#### Current sensing unit

Operates with arc monitor and detectors.

