centrica Business Solutions | Panoramic Power

Safety Precautions – Panoramic Power Sensor Installation

The installation of this product (the 'sensor') must be undertaken by an electrically qualified and competent person to prevent danger, injuries or a fatality due to the significant risks associated with work on or near live electrical conductors. An electrical safe system of work (SSoW)/electrical safe work condition must be followed to prevent any potential incident, which shall include a suitable and sufficient risk assessment. The risk assessment shall cover the work on or near the specific electrical equipment and shall be carried out by someone with comprehensive knowledge and experience of this type of work and the means of controlling the risks.

The electrical supply to the distribution panel where the install is taking place must be isolated (shut off following appropriate Lockout/Tagout procedures/guidelines) before and during the installation of the sensor(s).

Where it is determined acceptable, and in compliance with all applicable and current International, Federal, State, and local laws, rules, or regulations (e.g. NFPA 70E) and any other Authorities Having Jurisdiction, for the installation to be performed on an energized conductor (live wire), then for reasons of safety and inadvertent shock hazard suitable additional controls must be detailed within the SSoW. This shall include, but not be limited to; the use of suitably (International Electrotechnical Commission - IEC) verified insulated tools, equipment, protective clothing including electrically insulated gauntlets and Arc Flash resistant.

On aged electrical installations, consideration must be given when removing barriers/covers from electrical enclosures to the potential for exposed electrical parts (i.e. no insulating material) within the distribution equipment or any deterioration of insulation on single insulated conductors within, where intrusive interaction is needed to fit the sensor.

The sensor must be installed only on an insulated conductor and shall not be installed near or touching any other non-insulated exposed electrical conductor as proximity to un-insulated electrical conductors could result in an electrical short circuit (Arc Flash) incident occurring.

The sensor shall be compatible with the physical size and maximum electrical load current of the conductor and in accordance with the installation specification guidance which shall be comprehensively adhered to; this includes such information as sensor orientation in relation to the electrical load, installed in non-hazardous areas (e.g. explosive dust, vapor or gas atmospheres) and within the sensor's standard operating temperature of between 0 - 50°C.

Installation is possible both on external entry/exit conductors before the terminal strip and both ends of the circuit breaker. The most accessible location within the electrical enclosure should be chosen for installation of the sensor in order to minimize the risk of danger and injury. The sensor should be installed so that the arrow points in the direction of the load, panoramic power does not take any responsibility for the incorrect fitting of the device.