

# **ATEX Safety Instructions for MTL7700 Series Shunt Diode Safety Barriers**

The following information is in accordance with the Essential Health and Safety Requirements (Annex II) of the EU Directive 94/9/EC [the ATEX Directive - safety of apparatus] and is provided for those locations where the ATEX Directive is applicable.

## **General**

- a) This equipment must only be installed, operated and maintained by competent personnel. Such personnel shall have undergone training, which included instruction on the various types of protection and installation practices, the relevant rules and regulations, and on the general principles of area classification. Appropriate refresher training shall be given on a regular basis. [See clause 4.2 of EN 60079-17].
- b) This equipment has been designed to provide protection against all the relevant additional hazards referred to in Annex II of the directive, such as those in clause 1.2.7.
- c) This equipment has been designed to meet the requirements of EN 50021.

## **Installation**

- a) The installation must comply with the appropriate European, national and local regulations, which may include reference to the IEC code of practice IEC 60079-14. In addition, particular industries or end users may have specific requirements relating to the safety of their installations and these requirements should also be met. For the majority of installations the Directive 1999/92/EC [the ATEX Directive - safety of installations] is also applicable.
- b) This apparatus is an associated electrical apparatus and is normally mounted in a non-hazardous [safe] area. Specific apparatus described as Category 3 compliant may be installed in a Zone 2 location providing that the relevant installation conditions are met. When mounted in a Zone 1 or Zone 2 location the apparatus must be provided with an enclosure, which offers an additional degree of protection appropriate to the area classification.
- c) Unless already protected by design, this equipment must be protected by a suitable enclosure against:
  - i) mechanical and thermal stresses in excess of those noted in the certification documentation and the product specification
  - ii) aggressive substances, excessive dust, moisture and other contaminants.

Read also the Special Conditions for Safe Use (below) for any additional or more specific information.

### **Special Conditions of Safe Use for Zone 2 applications**

- a) The equipment must be installed in an enclosure or an environment that provides a degree of protection not less than IP54.
- b) The equipment must not be inserted or removed unless either:
  - i) the area in which the equipment is installed is known to be non-hazardous or
  - ii) the circuit to which it is connected has been de-energised.
- c) The 24V supply for this equipment must be derived from a regulated power supply complying with the requirements of European Community Directives.

## **Inspection and maintenance**

- a) Inspection and maintenance should be carried out in accordance with European, national and local regulations which may refer to the IEC standard IEC 60079-17. In addition specific industries or end users may have specific requirements which should also be met.
- b) Access to the internal circuitry must not be made during operation.

## **Repair**

- a) This product cannot be repaired by the user and must be replaced with an equivalent certified product.

## **Marking**

Each device is marked in compliance with the Directive and CE marked with the Notified Body Identification Number.

This information applies to MTL7700 products manufactured during or after the year 2011.