

Paladin Transducers
Class 0.2 Series 250
Signal Isolator

Installation

The 250-ISA Isolator is a 2-wire loop isolator that requires no external power supply. The device accepts d.c. mA inputs with a range of $0 \leq 20\text{mA}$ and provides an isolated output current directly proportional to the input signal.

The unit should be mounted in a reasonably stable ambient temperature within the range of -25 to +60°C.

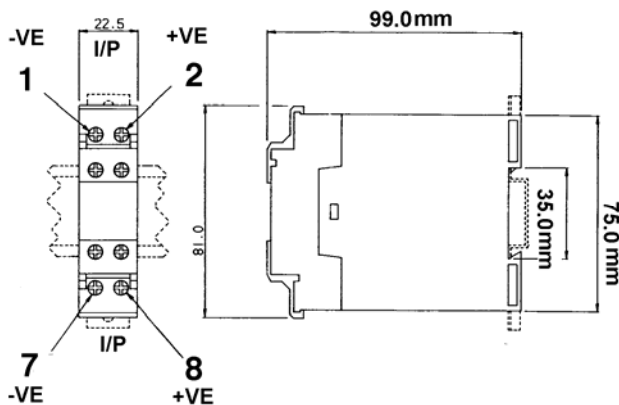
Connection wires should be sized to comply with local regulations and preferably should be fitted with tags for terminals provided.

Electromagnetic Compatibility

This unit has been designed to provide protection against EM (electro-magnetic) interference in line with requirements of EU and other regulations. Precautions necessary to provide proper operation of this and adjacent equipment will be installation dependent and so the following can only be general guidance:-

- Avoid routing wiring to this unit alongside cables and products that are, or could be, a source of interference.
- The auxiliary supply to the unit should not be subject to excessive interference. In some cases, a supply line filter may be required.
- To protect the product against incorrect operation or permanent damage, surge transients must be controlled. It is good EMC practice to suppress differential surges to 2kV or less at the source. The unit has been designed to automatically recover from typical transients, however in extreme circumstances it may be necessary to temporarily disconnect the auxiliary supply for a period of greater than 5 seconds to restore correct operation.
- Screened communication and small signal leads are recommended and may be required. These and other connecting leads may require the fitting of RF suppression components, such as ferrite absorbers, line filters etc., if RF fields cause problems.
- It is good practice to install sensitive electronic instruments that are performing critical functions in EMC enclosures that protect against electrical interference causing a disturbance in function.

Connection Diagram

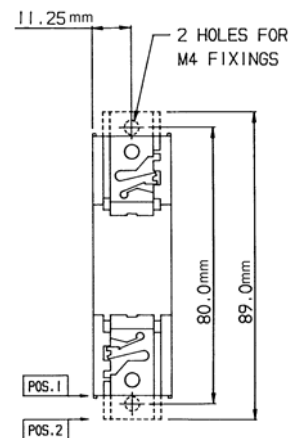


Dimensions

Mounting Details

Position 1 – Din top hat rail mounting (DIN EN50022-35)

Position 2 = Screw mounting to suite M4 fixings.



LOW VOLTAGE DIRECTIVE: This product complies with BSEN61010-1

This product is manufactured by Crompton Instruments, Freebournes Road, Witham, Essex. England. CM8 3AH. Telephone +44 (0) 1376 509509, Fax: +44 (0) 1376 509511.

The Information contained in these installation instructions is for use only by installers trained to make electrical power installations and is intended to describe the correct method of installation for this product. However, Tyco Electronics has no control over the field conditions, which influence product installation. It is the user's responsibility to determine the suitability of the installation method in the user's field conditions. Tyco Electronics' only obligations are those in Tyco Electronics' standard Conditions of Sale for this product and in no case will Tyco Electronics be liable for any other incidental, indirect or consequential damages arising from the use or misuse of the products. Crompton is a trademark.



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