

TX7232

Base Mount Short Circuit Isolator Installation and Operation Manual



Product Safety

To prevent severe injury and loss of life or property, read the instruction carefully before installing the Isolator to ensure proper and safe operation of the system.



European Union directive

2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points.



For more information please visit the website at www.recyclethis.info

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1 Introduction

1.1 Overview

The TX7232 manufactured base on the requirement of EN 54 part 17, European Standard. In the event of short circuit on the detection loop the TX7232 Isolators either side of the loop will detect the problem and open circuit and isolates the faulty part of the loop, enabling other devices on the unaffected part of the loop to operate normally. The isolator will continue to monitor for the fault to be repaired, once the fault is cleared the isolator will automatically reinstate the effected part of the loop.

The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assemblies make installation and maintenance more convenient to the installer. The TX7232 Isolator is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

1.2 Feature and Benefits

- EN54-17 Compliance
- In the event of a short circuit isolates faulty parts of the loop.
- Automatically resetting once the fault has cleared
- Can monitor up to 70 devices
- LED status indicator
- Loop powered device
- Aesthetically pleasing design
- A detector can be mounted directly above the isolator

1.3 Technical Specification

- | | |
|-----------------------|---|
| • Listed | LPCB Pending |
| • Compliance | EN54-17 |
| • Input Voltage | 24VDC [16V to 28V] |
| • Current Consumption | Standby : $\leq 0.15\text{mA}$, Alarm: $\leq 2\text{mA}$ |
| • Protocol | T&A |
| • Number of monitored | Max 70 Devices |
| • Output Impedance | 480 m Ω |
| • Indicator Status | Normal: Single blink/Active: Steady-on |
| • Material / Colour | ABS / White Glossy finishing |
| • Dimension / LWH | Diameter 100.7mm, Thickness 34mm |
| • Weight | 108g (with Cover), 91g (without Cover) |
| • Humidity | 0 to 95% Relative Humidity, Non condensing |

2 Installation

2.1 Installation Preparation

This interface isolator must be installed, commissioned and maintained by a qualified or factory trained service personnel. The installation must be installed in compliance with all local codes having a jurisdiction in your area or BS 5839 Part 1 and EN54.

T&A products has available range of interfaces, each interface isolator is designed for specific application, it is essential to consider the requirement of both sides of the interface to avoid malfunction and typical fault scenario. The main caution is to ensure that the voltage rating of the equipment and interface isolator are compatible.

2.2 Installation and Wiring

1. The appearance of the Base Mount Short Circuit Isolator is shown in Figure 1. Figure 1-a, 1-b and 1-c are front view with a cover, front view without a cover and side view without a cover, Respectively.
2. As shown in Figure 1-b, "ZI+" and "ZI-" are the positive and negative terminals of the bus input. ZO+ and ZO- are the positive and negative terminals of the bus output. "L+" and "L-" are used to connect the remote control lights.
3. Figure 2 is the installation of the isolator. The isolator can be Installed on the wall with screws through the mounting holes. The wires are connected to the terminals of the isolator through the cable entry.

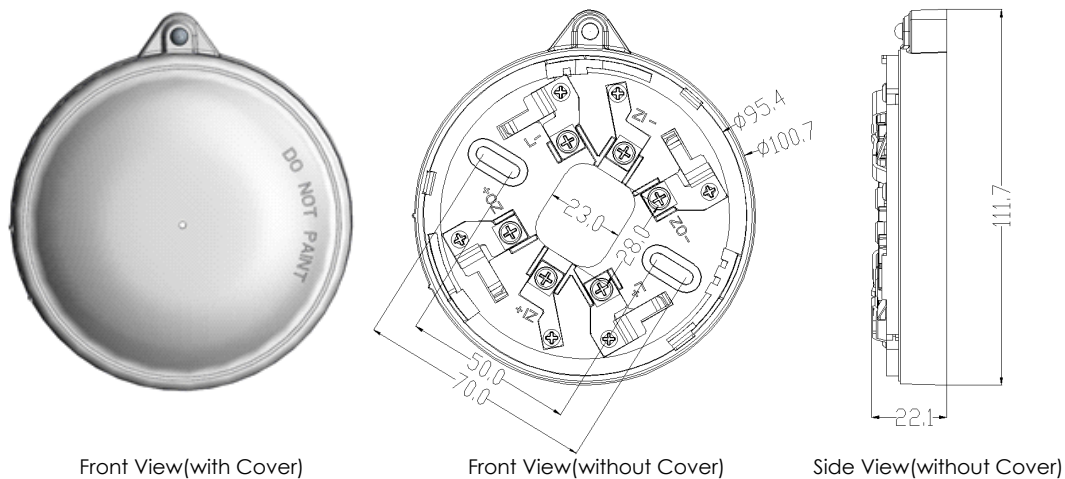


Figure 1 External view of Base Mount Short Circuit Isolator

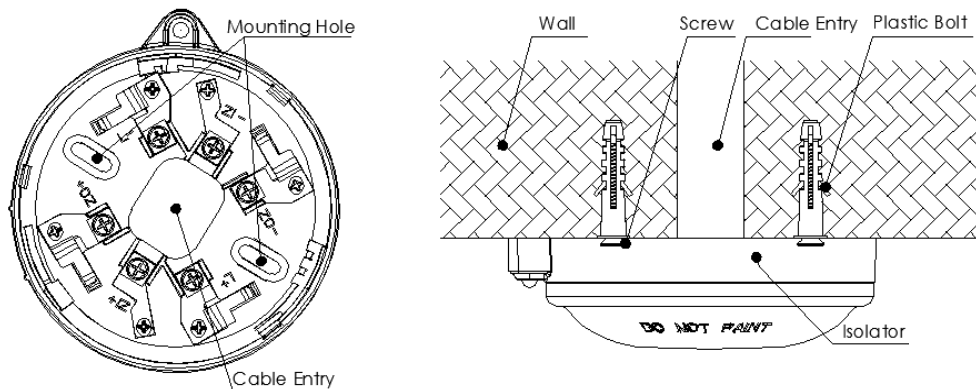


Figure 2 Wiring Diagram

3 General Maintenance

1. Inform the suitable personnel before conducting the maintenance.
Note: Since Isolator cannot disable from the control panel to prevent false alarm, it is recommended to temporarily close the loop once the isolator is removed.
2. Do not attempt to repair the circuitry of the interface isolator, it may affect the operation to respond to a fire condition and will void the manufacturer's warranty.
3. Use a damp cloth to clean the surface.
4. Notify again proper personnel after conducting the maintenance and make sure to enable the interface isolator and confirm if up and running.
5. Perform the maintenance on semi-annually or depending on the site conditions.

4 Troubleshooting Guide

| What you notice | What it means | What to do |
|--------------------------|---|--------------------|
| Panel display loop fault | Wrong wiring or the damage the electronic circuit | Replace the device |

Appendix 1

Limitation of Base Mount Short Circuit Isolator

The isolator cannot last forever. In order to keep it working in good condition, please maintain the equipment continuously according to recommendations from manufacturers and relative nation codes and laws. Take specific maintenance measures on the basis of different environments.

This isolator contains electronic parts. Even though it is made to last for a long period of time, any of these parts could fail at any time. Therefore, test your isolator at least every half-year according to national codes or laws. Any interface isolator, fire alarm devices or any other components of the system must be repaired and/or replaced immediately as they fail.