



TX7240

Loop Relay Module

Feature and Benefits

EN54-18 Compliance

Built-in MCU processor

Input bus, the output bus signal between the electrical isolation, electromagnetic interference has a good inhibitory capacity, stable and reliable work Input Fire or Supervisory signal configuration

LED status indicator

To correct the bus signal, the output standard bus waveform

Fast intelligent bus output short circuit judge function, bus output short circuit protection function; after the bus is normal, it can recover the bus output in time

Aesthetically pleasing design

Overview

TX7240 loop relay module uses DC24V power supply, through the internal electrical isolation circuit, realize the input bus signal and the output bus signal isolated real-time transmission, output standard bus waveform. The loop relay module can improve the anti-interference ability of the bus, and has the function of extending the communication distance of the bus. The bus signal is mainly used in the field of external interference distortion or need to extend the communication distance of the bus.

The unit manufactured base on the requirement of EN 54 part 18, European Standard. 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 unit is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.



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Technical Specification

Compliance
Current Consumption

EN 54-18:2005
Loop Power: 24VDC [16V to 28V]
External PSU: 20 to 28VDC

Current Consumption

Loop: $\leq 5\text{mA}$
External PSU: $\leq 5\text{mA}$

Bus input range: $\leq 1000\text{m}$

Bus output range: $\leq 1000\text{m}$

Most cascade three

Protocol/Addressing
Indicator Status
Material / Colour
Dimension / LWH
Operating Temperature
Humidity

T&A, Value range from 1 to 254
Normal: Single blink/Fault: Steady-on
metal / gray
155.0mm×97.0mm×40.0mm
-5° C to +40° C
0 to 95% Relative Humidity, Non condensing

Installation and Wiring

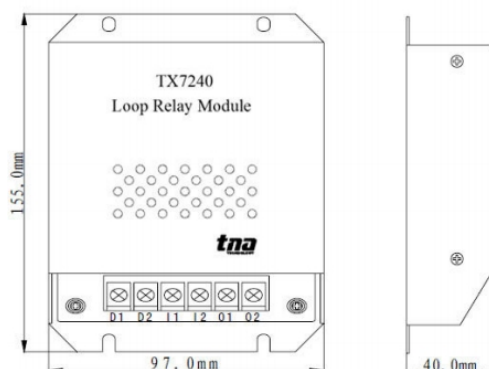


Figure 2: Loop relay module figure size

Terminal Description

1. The loop relay module is used for anti interference when used outside the site should be installed in the presence of disturbances, such as the shielding effect of the iron shell; relay module as extended bus communication distance is used, should be installed at the output end of long distance bus controller within 1000m; fixed by screws, installed in the room.
2. External wiring terminal diagram is shown below:



Figure 1: Schematic diagram of external terminals

D1、D2: 24V power input terminal

I1、I2: Bus input terminal

O1、O2: Bus output terminal, O1 is the positive, O2 is the negative.

Wiring requirements: no polarity signal two bus using RVS twisted pair, Sectional area $\geq 1.0\text{mm}^2$;

DC24V power using BV line, Sectional area $\geq 1.5\text{mm}^2$

NOTE: the TX7240 cannot be used in the loop



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