TN7200

Relay module
Installation and Operation Manual

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1 Introduction

1.1 Overview

TN7200 Relay Module can constitute a fire telephone system together with TN7000 Fire Telephone Control Panel, TN7100 Addressable Handset, TN7101 Fire Telephone Mobile Handset, TN7300 Addressable Fire Telephone Jack Socket and TN7301 Fire Telephone Jack Socket. Adding a relay at the end of the telephone bus can enhance the distance and quality of communication during on-site construction.

1.2 Features

1. Isolating input and output of the bus, power supply, enhancing the communication quality and anti-interference ability.
2. Non-polarized 24VDC power input and telephone bus input, convenient for installation, operation and maintenance in field.
3. Featuring of short circuit protection for bus output

1.3 Technical Specification

Part Number	**TN7200**
Standard	
Compliance	GB 16806-2006
Specification	
Operating Voltage	24V DC（Telephone bus 18V～28V）
Operating Current	≤600mA
Communication Distance	≤1000m（twisted pair）
Physical	
Dimension	L:121.0 x W:188.0 x H:39.5 mm
Weight	0.6 Kg
Environmental	
Operating Temperature	-10°C to +40°C
Relative Humidity	≤95% Relative Humidity, Non condensing

1.4 Structure

The enclosure of TN7200 Relay Module is T1.0 cold spray-painted plate with durable and anti-corrosion abilities. Fig. 1 shows dimensions of the relay module（unit: mm）.
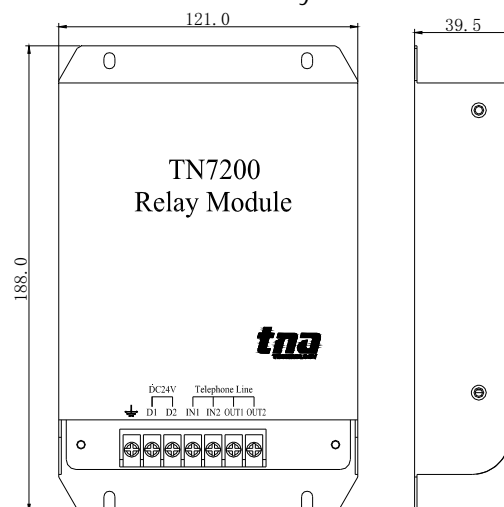

Fig. 1

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2 Installation and Cabling

TN7200 Relay Module is installed indoors with four screws. It has 7 digit terminals shown as follows.
D1, D2: 24VDC power supply input terminals for connecting with nearby 24VDC power supply, non-polarized.
IN1, IN2: Telephone line input terminals for connecting with the bus of a fire telephone control panel, non-polarized.
OUT1, OUT2: Telephone line output terminals for connecting with fire handsets.
⏚ : Earth terminal
Installation: Use the four mounting holes on the housing, fix with screws, and install indoors.

3 Operation

As wiring is connected correctly, TN7200 Relay Module can work after power on. Indicators status is shown below

Name of Indicator	Color	Instruction
Work LED	Green	It flashes in signal-transmitting/receiving state and lights in talk state. It doesn't light in fault state.
Fault LED	Yellow	It lights when output circuit is short and doesn't light in normal standby state.

4 Shipment and Storage

The handset should be well packaged and gently taken to avoid damage while transporting, handling and storing. The environment for storing Jack socket should be ventilated and dry. However, open storage is not allowed in any way.

5 Cautions

1. This product belongs to firefighting equipment, so duty and shift system should be followed strictly and running records should be kept carefully while this product is being operated.
2. This equipment must be installed and maintained by a suitably skilled and technically competent person. We are not responsible if any damage is caused due to misoperation by an unskilled person.