ZETTLER Expert
TSM800 Door Control Module

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ZETTLER Expert: The TSM800 and the door control function If personal injury and damage to property is to be avoided in the event of a fire, it is particularly important that fire compartments are separated from each other automatically with a minimum of effort from the user. People can be exposed to considerable harm through the propagation of smoke in particular.

The TSM800 door control module when used with the ZX Expert control panels fire detectors will rapidly prevent the spread of fire of smoke by automatically closing the affected compartments fire doors.

All-in-one solution

Integrating the TSM800 and the door control function into the ZX fire detection system in our product portfolio enables us to offer a one-stop, all-in-one solution. This greatly facilitates the planning and configuration of a project because the availability of an all-in-one system from one single supplier guarantees compatibility at all times. Installation costs are reduced because installation is both simpler and quicker.

The possible components of a variety of manufacturers that can be used when installing the TSM800 in compliance with DIBt (German Institute for Construction Technology) regulations are also indicated.

Features

- The TSM800 Door control module is as a triggering mechanism for hold-open devices in doors or firedampe meeting DIBt guidelines for hold-open systems.
- It has a monitored analogue input and a relay contact (change-over switch) as a non-monitored output.
- The TSM800 has a self-monitoring system that monitors communication with the control panel and the presence of the line voltage
- The TSM800 is powered from the loop
- The TSM800 has an electrically isolated output that monitors for undervoltage in the external power supply for the hold-open device
- The hold-open device is powered from an exter source
- The TSM800 has an integrated short-circuit isolator. Actuation of the short-circuit isolator is indicated by means of a yellow LED on the TSM800
- The 24 V auxiliary supply is monitored for undervoltage

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Safety in exceptional cases

The TSM800 with door control function was designed to offer the same high level of safety in every exceptional case. That's why the TSM800 triggers the process of closing fire compartment doors whenever circumstances indicate there might be a problem in order to eliminate the possibility of dangerous situations developing.

The Fire door is closed in the following events

- The minimum line voltage is not reached
- The auxiliary supply voltage is not reached
- The TSM800 is disconnected or has a fault
- One of the detectors assigned to the hold-open system is disconnected or inspected
- The CPU800 processing unit in the fire alarm control panel fails
- There is a communication fault between the TSM800 and the fire alarm control panel
- There is an alarm or fault in one of the detectors assigned to the hold-open system

Safety to VdS/DIBt and DBI standard

The TSM800 is approved under VdS EN 54-17 and EN 54-18 standards. The TSM800 also meets DIBt and DBI (Denmark) guidelines. Integration into the fire alarm system means that the transition area of the fire compartments is permanently monitored and documented.
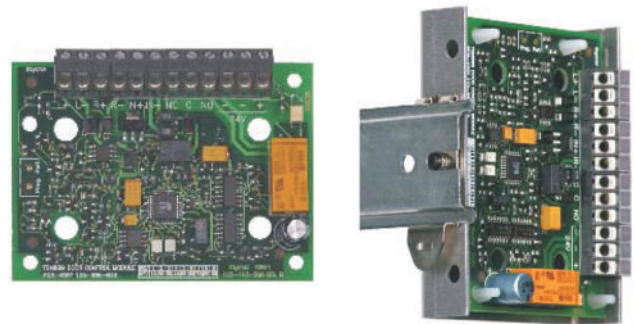
Configured for every user

The TSM800 can be configured for various modes of door control. Different country-specific requirements can be taken into account.

The following types of door control can be configured

- Type 1 - with monitoring unit activation
- Type 1 - without monitoring unit activation
- Type 2 - with display
- Type 2 - without display

Flexible installation options

To meet all installation requirements, the TSM800 is supplied as a PCB. Depending on the application, it can be installed in a variety of housings or on a PCB chassis for 35 mm DIN rails. These components can be ordered individually.

Installation to DIBt requirements

The TSM800 can be combined with a variety of components from different manufacturers, enabling a complete door control compliant with DIBt guidelines to be planned and installed both quickly and easily.

This guarantees high flexibility and customisation to particular requirements and ambient conditions. The ability to combine the TSM800 with standard components allows us to offer a reliable, low-cost solution for every possible application.

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