



# SPT 24

PTC-relay for the application as a protection device against inadmissible overheating of electrical equipment.





## Protection device against inadmissible overheating of electrical equipment

**FUMEX SPT 24** (MSR220KA, ZIEHL) – PTC-relay for the application as a protection device against inadmissible overheating at electrical equipment in areas with explosive gases (zones 1 and 2) and areas with combustible dust (21 and 22), e.g., for direct temperature-monitoring of explosion-proof motors EEx e and EEx d.

To be used together with a contactor or frequency converter to protect EX and standard fans with built-in thermistors.

In the fan motors with PTC sensors, there are six connected in series thermistors, two per phase winding, which resistance is affected by temperature. If the fan motor temperature exceeds the permitted temperature, the resistance is increased and the SPT 24 trips.

**RESET** button with built-in LEDs for POWER ON (green) and ALARM (red). If SPT 24 has tripped, the indicator light lights up red. Manual reset, either by pressing the button "**RESET**", or by disconnect the power supply for SPT 24.

ATEX approved according to directive 2014/34/EU. FUMEX SPT 24 must not be placed in an EX-zone.

## Accessories

### Enclosure box SPC

Enclosure box for protection of SPT 24.

#### Measurements:

Weight: ..... 0,5 kg

Height: ..... 201 mm

Width: ..... 103 mm

Depth: ..... 145 mm

#### Enclosure:

Box: ..... IP65

Material: ..... Plastic



### Test kit SPK

Test kit SPK for mounting in Enclosure box SPC. Enables quick, easy and accurate functional testing of SPT 24.

#### Components

- Rotary switch
- Reset button  
(with built-in light for triggered alarm)
- Manual for installation in Enclosure box SPC

#### Function

The Fumex test kit has three test modes that simulate prescribed tests on SPT 24 (interruption, short circuit as well as increased resistance). During testing, the motor is interlocked automatically from starting.



Rotary switch



Reset button

#### Functional test is required

FUMEX SPT 24 must be functionally tested periodically. Recommended interval varies depending on the zone, but always at least one test per year.

## Technical data

### Electronics

Rated supply voltage: .....AC/DC 24 V, AC  $\pm$  10 %  
DC 21- 30 V < 2 VA, without  
potential separation

Connectable PTC resistors: .....1 to 6 PTC in series according  
DIN VDE V 0898-1-401  
(formerly DIN 44081/82)

Switching point: .....< 4000  $\Omega$

Output relay: .....1 or 2 change-over-contact (co)

### Temperature

Rated ambient temperature: ...-20 to +55 °C

### Casing:

Protection Housing: ..... IP30

Terminals: ..... IP20

Material: ..... Plastic

### Dimensions

Weight (approx.): ..... 150 g

Height: ..... 75 mm

Width: ..... 22,5 mm

Depth: ..... 115 mm

Attachment: ..... 35 mm DIN rail according to

..... EN 60 715 or screws M4 (option)

## Specifications

### Form of delivery

Delivered with necessary documentation for easy and correct installation.

### Production

The product is certified under the ATEX directive 2014/34/EU.