

# Pt 100-Temperature-Relay Type TR 111 V

## 1 Sensor

TR 111 V  
3-wire



Temperature-Relays TR 111 V can be used as limit-switches or 2-point controllers with high repeat accuracy.

3 measuring-ranges, adjustable hysteresis and switching delay and the choice between operating- and closed-current principle of the relay make it a very universal device.

- Measuring input 1x Pt 100 (RTD) / 3-wire
- 3 measuring-ranges:
  - -10...+40 °C
  - 0...100 °C
  - 0...200 °C
- 1 limit adjustable 0...100 %
- switching delay adjustable 0,1...10 s
- Output-relay 1 changeover-contact (co)
- Operating- or closed-current-mode selectable with bridge
- Switching off at sensor-short-circuit or break
- LEDs for display state of operation
- Universal supply-voltage AC/DC 24-240 V
- Housing for mounting in switchgear cabinets or fuse-boxes, 35 mm wide
- Mounting height 55 mm

### Application:

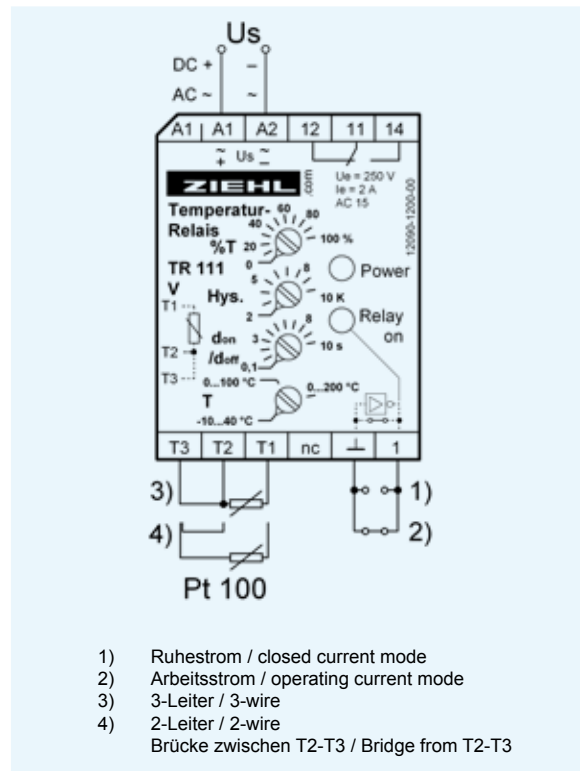
Protection from over-temperature in processes, plants and machines. Monitoring of temperatures in bearings.

Controlling of temperatures in processes and plants.

Order-number:

AC/DC 24-240 V **T 224107**

other measuring-ranges on request



## Technical Data

Supply voltage  $U_s$

AC/DC 24-240 V, 0/50/60 Hz, < 2W, < 3VA  
(DC 20,4 - 297, AC 20-264 V)

Pt 100 -Sensor (RTD)

EN 60751 / IEC 60751

Measuring ranges

3 ranges selectable

Error of setting

$\pm 5$  K

Repeat error

app. 0,5 K

Temperature-dependence

$\leq 0,05$  %/K

Hysteresis

adjustable 2...10 K

Switching delay don/doff

adjustable 0,1...10 s

Relay output

1 change-over contact (co)

Type of contact

**type 3** see "general technical informations"

Test conditions

siehe "general technical informations"

Rated ambient temperature range

-20°C...+55°C

Dimensions (H x W x D)

design V4: 90x70x58 [mm], mounting height 55 mm

Attachment

on 35 mm DIN-rail according to EN 60 715 or

with screws M4

Protection housing/terminals

IP 30 / IP 20

Weight

app. 100 g