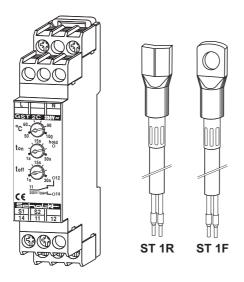




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Limit-value switch for Temperature GST 2

3 measuring ranges available: $A = -30^{\circ} - 0^{\circ}C / B = 0^{\circ} - 50^{\circ}C / C = 50^{\circ} - 100^{\circ}C$

Temperature sensors ST 1R / ST 1F

SPECIAL FEATURES:

- Potential-free changeover contact
- Electrically isolated sensor input (PELV)
- Adjustable switch-on/off delay
- Display for switch threshold and switch state
- Low power input

GENERAL:

The GST 2 is a universally applicable limit-value switch for temperature monitoring.

With 3 available temperature ranges, a large number of applications can be covered.

The measurement input provides an electrically isolated extra-low voltage (PELV) for NTC-type temperature sensors.

Adjustable switch-on/off delays and the potentialfree changeover contact provide rapid and simple adaptation to a very wide variety of measuring conditions and applications.

APPLICATION:

Monitoring or controlling heating and cooling systems, plant protection, room thermostats etc.

OPERATION:

When the temperature falls below the set minimum limit, the "hold" LED lights up. After the preset on-delay "ton" has elapsed, the relay is activated.

When the temperature rises above the limit again, the "hold" LED goes out and the relay contact returns to its rest position.

The switch status at the changeover contact is displayed by LEDs 12 and 14.

ORDERING INFORMATION:

Part No.	Type	Description
gst2a9	GST 2A	Limit value switch temp30°C - 0°C
gst2b9	GST2B	Limit value switch temp. 0°C - 50°C
gst2c9	GST2C	Limit value switch temp. 50°C - 100°C
st1r00	ST1R	Temperature sensor pipe mounted type
st1f00	ST1F	Temperature sensor flat mounted type

TECHNICAL DATA GST 2:

Operating voltage 230V 50/60Hz 10% Power input approx. 0.7W Measuring range Type A: -30°C 0°C Type B: 0°C 50°C Type C: 50°C 100°C Switching hysteresis approx. 1°C Switch-on delay adjustable 1-30 seconds adjustable 1-30 seconds Switch-off delay Voltage level at 10V DC PELV sensor input (short-circuit resistant) Relay output 1 changeover, 250V~ 10A potential free Contact load capacity Ambient temperature -10°C to +45°C Interference immunity Equipment protection compliant IEC 0801-5 level 3 Creepage / clearance Insulated housing Flameproof to VDE 0304

Connections

Installation position

Fixing

External dimensions Installation depth Weight

Colour conforming to RAL

See data sheet "Relay contacts" compliant IEC 0801-4 level 4 compliant VDE 0110 Gr. C/250V

Part 3, level FV 0 Socket terminals with captive screws M3.5 Freely selectable Clip fastening on 35 mm

standard rail DIN EN 50022

18x88(45)x58mm

55 mm approx. 80g

Grey 7035 / green 6029

TECHNICAL DATA ST 1R / ST 1F:

Version ST 1R Pipe-mounted sensor Version ST 1F Flat-mounted sensor Sensor type NTC (R25=47k 5%) Line length 1.5m (extendable to 50m) **Dimensions** approx. 53x13mm