

# High-Limit Temperature Controller

## CN3261 Series



- ✓ Protects Processes and Equipment From Excessive Temperatures
- ✓ DIN Rail and Sub-Panel Mounting
- ✓ J, K Thermocouple or RTD Input
- ✓ Terminals Provided for Remote Pushbutton Reset
- ✓ Latching, Normally Energized, 3 A Relay Output



CN3261-JF shown actual size.

The CN3261 Series high-limit controller protects expensive heaters and sensitive materials from damaging due to temperature conditions. Units are designed for industrial and commercial applications that require high-temperature protection. The CN3261 features a Form "C" latching, manually resettable relay output that de-energizes whenever the sensed temperature exceeds the setpoint temperature. Two methods are provided to reset an alarm condition, 1, the limit alarm has a reset pushbutton on the unit and 2, reset terminals are provided for resetting the alarm from a remote pushbutton. The DIN rail mounting feature allows quick installation without drilling or extra hardware. Slots are also provided for direct panel mounting.

### Specifications

#### Sensor Inputs:

**J Thermocouple:** 0 to 750°C (0 to 1400°F)

**K Thermocouple:** -18 to 1260°C (0 to 2300°F)

**RTD:** -18 to 454°C (0 to 850°F)  
2-wire input

**Control Output:** SPDT relay rated 3.8 A resistance and 1.5 A pilot duty 120 Vac, 100,000 cycles

**Control Mode:** Latching with manual reset or power-off

**Reset Function:** Integral reset switch standard; terminals available for optional remote reset switch

#### Set Point Adjustment:

Local SP dial adjustment

**Control Stability:** Typically less than  $\pm 5\mu\text{V}/^\circ\text{F}$  ambient and 0.1% of SPAN/% rated line voltage

**Set Point Accuracy:**  $\pm 3\%$  FS maximum at 25°C and rated line voltage

**Sensor Break Protection:** Contacts 4 and 5 open for thermocouple or RTD break

**Ambient Operating Temperature:** 0 to 60°C (32 to 140°F)

#### Noise Rejection:

**Common Mode Rejection:** 60 db

**Series Mode Rejection:** 120 db

#### Power Input:

120 Vac or optional 24 Vac  $\pm 15\%$ , 50/60 Hz, 3 VA maximum standard

**Enclosure Material:** Noryl, black color

**Field Terminations:** Screw terminals with wire clamping plates and touch-safe shield

**Mounting:** 35 mm DIN rail or surface mounting

**Mounting Screw Holes:** Upper left, lower right (2.5" c-c W and 3.0 c-c H) for #6 screws

**Dimensions:** 76 H x 84 W x 64 mm D (3.0 x 3.3 x 2.5") [overall 84 mm H (3.31") for mounting]

### To Order

Model No.	Description
CN3261-JF	Limit controller, J thermocouple -18 to 760°C (0 to 1400°F)
CN3261-KF	Limit controller, K thermocouple -18 to 1260°C (0 to 2300°F)
CN3261-RTDF	Limit controller, RTD -18 to 454°C (0 to 850°F)
CN3261-JC	Limit controller, J thermocouple 0 to 750°C (0 to 1400°F)
CN3261-JF-LV	Limit controller, J thermocouple 0 to 750°C (0 to 1400°F), low power

Comes complete with operator's manual.

**Ordering Examples:** CN3261-RTDF, limit controller with -18 to 454°C (0 to 850°F) RTD input.

OCW-3, OMEGACARE<sup>SM</sup> extends standard 1-year warranty to a total of 4 years.

CN3261-JF, limit controller, J thermocouple.