

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

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



CN3261-JF shown actual size.

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, OMEGACARESM extends standard 1-year warranty to a total of 4 years.

CN3261-JF, limit controller, J thermocouple.