

## Safety Made Simple

Future Design's Series "7L" Hi-Limit combination surface or DIN rail mount FM Approved controller designed to provide hi-limit protection to process applications.

Setup is accomplished simply by adjusting the set point knob by hand. A "SPDT" 5 amp latching relay is provided and must be manually reset each time the unit exceeds the limit set point.

Compact and simple, the Series "7L" offers several dual F/C temperature ranges to satisfy customer needs.

- Latching Output
- Remote Reset
- Finger Safe Terminals
- Alarm LED
- Surface or DIN Rail Mount
- UL, cUL, & FM Approvals
- Eliminate Panel Cutout
- Dual F/C Ranges



## FDC Series 7L Hi Limit

### Compact Design

- Small footprint takes minimal panel space

### FM Limit Control

- Protects equipment and personnel

### Simple Operation

- Simple setup, reduced learning curve

### LED Load Indication

### Two-year Warranty

## FDC Series 7L Specifications

### Power

115VAC, 24VAC or 24VDC; 50/60Hz, 3VA Max  
 Power is range code dependent (See P/N for ranges)

### Input

Thermocouple or RTD: J, K, T, Platinum RTD  
 See P/N for ranges

### T/C Compensation

Automatic cold junction compensation

### Limit Output

SPDT Relay rated at 5A resistive, 120VAC

### Reset Function

Manual reset button standard  
 Remote reset terminals standard

### Alarm Indicator

Red LED energizes when in alarm mode

**Setpoint Adjustment:** Local Setpoint adjustment

### Control Stability:

Typically less than +/- 5 microvolts per degree F and 0.01% of span per % rated line voltage

### Setpoint Accuracy

+/- 1% of FS maximum at 25C and rated line voltage

### Sensor Break Protection

Sensor Break Protection Contacts open for sensor break

**Agency Approvals:** UL & cUL Component Recognition

UL File # E197958

FM Approval

### Environmental and Physical

Operating Temperature: 0 to 60C

Molding: Noryl Black

Dimensions: See drawings on back

# Ordering Information

Enter the "Zxxx" code that corresponds to the specifications required.

**FDC - 7L - \_\_\_\_\_**

**Input Range Zxxx - ↑**

Order Code	Description	Power	Input Type	Temperature Range	Relay	
Z259	Limit Control	115VAC	"J" T/C	0 to 1400° F / 0 to 800° C	5A relay	FM Approved
Z260	Limit Control	115VAC	"K" T/C	0 to 2300° F / 0 to 1200° C	5A relay	FM Approved
Z261	Limit Control	115VAC	"J" T/C	0 to 600° F / 0 to 300° C	5A relay	FM Approved
Z275	Limit Control	24VDC	"J" T/C	0 to 600° F / 0 to 300° C	5A relay	FM Approved
Z289	Limit Control	115VAC	"T" T/C	-100 to 500° F / -70 to 260° C	5A relay	FM Approved

Consult Factory for additional power, voltage inputs & temperature

