

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
Z338	Limit Control	115VAC	RTD PT100	32 to 210F / 0 to 100C	5A relay	FM Approved
Z396	Limit Control	24VDC	“T” T/C	-100 to 500°F / -70 to 260°C	5A relay	FM Approved
Z408	Limit Control	24VDC	“K” T/C	0 to 2300°F / 0 to 1200°C	5A relay	FM Approved
Z409	Limit Control	240VAC	“K” T/C	0 to 2300°F / 0 to 1200°C	5A relay	FM Approved

Consult Factory for additional power, voltage inputs & temperature

