



Safety, Simplicity.

Future Design's L91 is a 1/16DIN control designed to provide limit protection in process applications. Up to three discreet setpoints, two outputs, fast scan rates and user friendly prompts make it the right choice for safety protection. The L91 offers a full range of universal inputs. Power supply selections of 90-264 VAC (std) or 11-26 VAC/VDC allows the L91 to be used virtually anywhere. Output selections include Relay, SSR Drive or Triac. Optional features such as a second latching relay, DC power supply, remote reset or communications offer maximum flexibility for demandng applications. The L91 display can be be configured for PV, HSP, LSP or Safe, offering the simplicity required by operations personnel.

- Latching Outputs
- RS-485 Interface
- Annunciator Output
- Operations Friendly
- Remote Reset
- UL, FM, CE Approval

TUREDESION

FDC-L91

1/16 DIN LIMIT CONTROL

FDC-L91 Specifications

Power

90-264 VAC, 49-63 Hz, 10VA, 5W maximum 11-26 VAC/VDC, 10VA, 5W maximum

INPUT

Thermocouple: (T/C): Type J,K,T,E,B,R,S,N,L RTD: PT 100 ohm RTD (DIN or JIS) Linear: 4-20, 0-20MA, 0-60Mv, 0-1, 0-5, 1-5, 0-10VDC Range: Per table in manual Accuracy: Typically better than ± .25% of span Cold Junction Compensation: ± 1.5uV/°C@25°C Sensor Break: 4 sec.for sensor input, 0.1 sec. for linear 4-20 mA or 1-5 VDC Common Mode Rejection: 120dB Sample Rate: 5 times per second

LIMIT OUTPUT TYPES

Relay: Form C 2.0 Amp/240 VAC Resistive SSR Drive: 5 Volt VDC@30 Ma Triac: 1.0 Amp/240 VAC

INDICATION

Single LED Display: 0.4" Height, 4 Digits Red Unit Display: °C and °F Indicator Status Indicator: Оит1, Оит2, HSP1, LSP2, SP2, Locк

Options

Second Output: Relay Form A 2.0Amp@240 Res. (N.O.) SSR Drive 5VDC@30MA Triac 1.0 AMP@240 VAC

Second Output Types: Latching, Non-Latching, Annunciator Communications: Modbus RTU

DC Power Supply: Isolated 20 VDC@25 MA Isolated 12 VDC@40 Ma Isolated 5 VDC@80 Ma

Remote Reset: External Contact Closure Reset

ENVIRONMENTAL AND PHYSICAL Operating Temperature: -10 to 50°C Storage Temperature: -40 to 60°C Humidity: 0/90% RH (non-condensing) Insulation: 20 M ohms Minimum (500 VDC) Dielectric Strength: 2000 VAC, 50/60 Hz@1 Min. Shock Resistance: 200m/s² (20G) Vibration: 10-55Hz, 10m/s² for 2 hours Molding: Flame retardant polycarbonate Dimensions: 1.89" (H) x 1.89" (W) x 3.70" (D) Weight: 5.3 oz. (150 grams)

ORDERING INFORMATION

Enter a number in each box which corresponds to the specifications you want when ordering the L91.

FDC-L91

POWER INPUT

- 4: 90-264 VAC 49/63 Hz
- 5: 11-26 VAC/VDC
- 9: Special Order

SIGNAL INPUT

- 1: Universal Input T/C, RTD, Mv
- 2: Voltage DC: 0-1, 0-5, 1-5
- 3: Voltage DC: 0-10
- 4: mA 0-20, 4-20
- 5: Special Order
- ordered with signal inputs 2, 3 & 4 are not FM approved.

Note: Instruments

OUTPUT 1

- 1: Form C Relay 2.0 Amps@240 VAC Res.
- 2: SSR Drive 5 VDC@30 ma
- 3: Triac 1.0 Amp@240 VAC
- 4: Special Order

OPTIONS

- 0: None
- 1: Form A Relay 2.0 Amps@240 VAC Res. (N.O.)
- 2: SSR Drive 5 VDC@30 ma
- 6: TRIAC 1.0 Amp@240 VAC
- 7: Isolated DC Power Supply 20 VDC@25 mA
- 8: Isolated DC Power Supply 12 VDC@40 mA
- 9: Isolated DC Power Supply 5 VDC@80 mA
- A: RS 485 (Modbus RTU)
- B: Remote Reset
- C: Special Order

