

PRODUCT SPECIFICATION SHEET

MODEL:

Series 120L

REV:

F

DESCRIPTION:

DIN Rail Mtg. Limit Temp Controller w/Manual Reset

CUSTOMER PN:

Generic

DATE:

7/7/04

REV. DATE:

11/10/20

Series 120L

Input Voltage: 115VAC ±15%, 50/60Hz, 3VA Max. Std; 240VAC, 24VAC & 24VDC¹ optional.
Control Output: SPDT Relay rated 3.8(1.5) Amps Res. & 1.5(.8) Amps Pilot Duty 120(240)VAC, 100,000 cycles; optional DC output to drive customer supplied SSR.
Control Mode: on temperature rise.
Trip Indicator: LED illuminates when controller trips.
Reset Function: Integral reset switch standard; terminals available for optional remote reset switch.
Std. Ranges/Sensors: See table standard ranges. Contact factory for non-std fxd or adj. SPs & sensors.
Setpoint Adjustment: Local SP pot (adjustable ranges only)
Compensation (TC only): Automatic cold junction compensation
Control Stability: Typically less than ±5μV/°F ambient and .01% of span/% rated line voltage
Set Point Accuracy: ±3% of FS maximum at 25°C and rated line voltage
Sensor Break Protection: Contacts open for thermocouple break or for open RTD.
Amb. Oper. Temp: 0 to 55°C (32 to 131°F)

MECHANICAL

Enclosure Material: Noryl, Black color
Field Terminations: Screw terminals with wire clamping plates and touch safe shield.
Mounting: 35mm DIN rail and surface mounting base

AGENCY APPROVALS UL 873 & CUL per CSA C22.2 No. 24 File #E105669; FM 3545

ORDERING INFORMATION: Model No. **120L - x7yzzz**

x - input voltage

1 = 115VAC
 2 = 230VAC
 4 = 24VAC
 5 = 24VDC¹

y - Sensor Type

J = J T/C
 K = K T/C
 P = 100ohm PRTD
 M = 1K PRTD

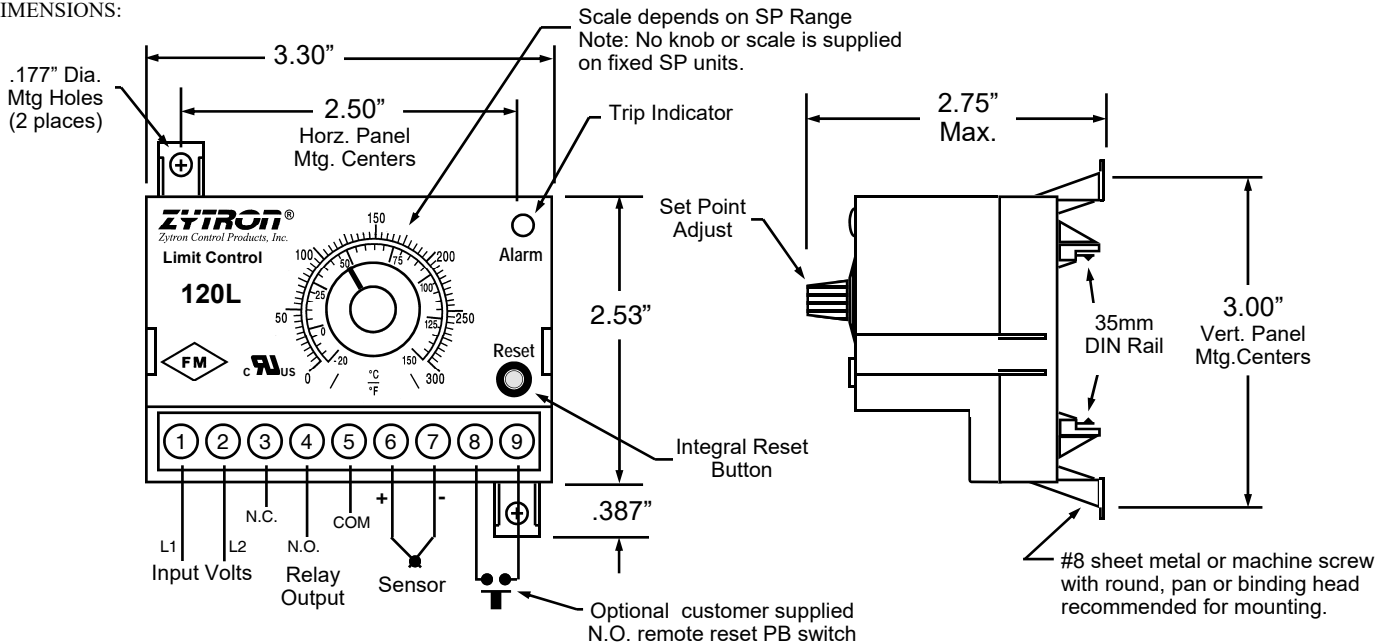
zzz - Range Code

001 = 0 to 1400°F/-20 to 760°C
 002 = 0 to 2300°F/-20 to 1260°C
 003 = 0 to 600°F/-20 to 315°C
 004 = 0 to 300°F/-20 to 150°C
 005 = 0 to 1500°F/-20 to 815°C

NOTE:

1. The 24VDC input is non-isolated and **must be used with an ungrounded Thermocouple or PRTD sensor.**

DIMENSIONS:



LTR	DESCRIPTION	DATE
A	Corrected drawing and revised operating temperature.	8/25/05
B	Added mounting hole size and recommended mounting screw size.	6/21/06
C	Added fixed set point option.	11/6/06
D	Replaced model no. table with Ordering Information for building a desired model no.	11/15/11
E	Added "P" = 100ohm PRTD and "M" = 1K PRTD to Ordering Information.; corrected control stability spec (was mV/°F)	7/17/18
F	Added note that 24VDC controls are non-isolated and must be used with ungrounded Thermocouples.	11/10/20