

Heating Cable

WeatherTrace

Freeze Protection

Heat Trace Panels

(cont'd.)

Ordering Information

To Order —
Complete the
Model Number
using the Matrix
provided.

Model 277 VAC 4-Wire; Ambient Rating 40°C (104°F)

FPLSM FPLSM series Line Sensing Heat Trace Panels are designed for use in Freeze Protection and Snow Melt applications. The Chromalox FPLSM series offers the following standard features: NEMA 4 enclosure, Main Power On Lamp, and Thermal Magnetic Branch Circuit Breakers with 30mA Ground Fault Equipment Protection. The FPLSM WeatherTRACE Sentinel continually monitors the supply voltage to each individual heat trace circuit. Loss of voltage or a ground fault condition triggers and automatic alarm to an annunciator panel which identifies the faulted zone and a Common Alarm is activated with the Re-Ring Feature. The FPLSM Options Include: NEMA 4X 304 Stainless Steel Enclosures, Main Disconnect Switch, Enclosure Heater, and Type Z Pressurization System. The FPLSM series panels have UL and cUL Third Party Approvals.

Code	Panelboard	Available Breaker Poles	Enclosure Size HxWxD In. (cm)
181	18 Positions (100 Amp Main Rating)	(8) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)
301	30 Positions (100 Amp Main Rating)	(14) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)
421	42 Positions (100 Amp Main Rating)	(20) 1-pole breakers	60 x 36 x 10 (152 x 92 x 25)
302	30 Positions (225 Amp Main Rating)	(14) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)
422	42 Positions (225 Amp Main Rating)	(20) 1-pole breakers	60 x 36 x 10 (152 x 92 x 25)

Code	Power Source	Heater Load
1	3 Phase Power, 277/480 VAC 4-Wire	277 VAC (240 VAC Cable)

Code	Enclosure Rating
1	NEMA 4 Single-Door, Wall-Mount Steel Enclosure
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 181, 301 & 302)
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 421 & 422)

Code	Branch Circuit Breaker Selection (DO NOT EXCEED MAIN RATING)
1(*)	15 Amp 1-Pole GFI Circuit Breaker for 277 VAC load
2(*)	20 Amp 1-Pole GFI Circuit Breaker for 277 VAC load
3(*)	30 Amp 1-Pole GFI Circuit Breaker for 277 VAC load

Code	Main Disconnect or Main Circuit Breaker Selection
0	None
Disconnects	
1	100 Amp with 25K Fault Protection (Code 181, 301 & 421 Only)
2	250 Amp with 35K Fault Protection
Main Circuit Breakers	
A	30 Amp, 3 Pole Circuit Breaker
B	50 Amp, 3 Pole Circuit Breaker
C	70 Amp, 3 Pole Circuit Breaker
F	125 Amp, 3 Pole Circuit Breaker
G	175 Amp, 3 Pole Circuit Breaker
J	225 Amp, 3 Pole Circuit Breaker

Code	Enclosure Heater
0	None
1	Thermostat Controlled Enclosure Heater

Code	Pressurization Control System
0	None
1	Type Z Class 1, Division 2

FPLSM- 181 1 1 1(5) 1 0 0 Typical Model Number

Technical Notes: (*) Enter number of circuit breakers in parenthesis

Note: Maximum number of circuit breakers is dependent on the panelboard size (see panelboard selection) and the current capacity of the panelboard (see table below)

277 VAC	Breaker Rating		
	Maximum Number of Breakers		
	15 Amp	20 Amp	30 Amp
100 amp Panel Board	20	18	12
225 amp Panel Board	20	20	20

HEAT TRACE
CONTROL PANELS