

WeatherTrace Freeze Protection Heat Trace Panels (cont'd.)

Ordering Information

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

Model 240/120 VAC Single-Phase, 208/120 VAC Three-Phase 4-Wire

FPLSM FPLSM series Line Sensing Heat Trace Panels are designed for use in industrial 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. Options Include: NEMA 4X 304 Stainless Steel Enclosures, Main Disconnect Switch, Cabinet 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)
12	12 Positions (100 Amp Main Rating)	(12) 1-pole breakers or (6) 2-pole Breakers	48 x 36 x 10 (122 x 92 x 25)
20	20 Positions (100 Amp Main Rating)	(20) 1-pole breakers or (10) 2-pole Breakers	48 x 36 x 10 (122 x 92 x 25)
30	30 Positions (225 Amp Main Rating)	(30) 1-pole breakers or (14) 2-pole Breakers	60 x 36 x 10 (152 x 92 x 25)
42	42 Positions (225 Amp Main Rating)	(42) 1-pole breakers or (20) 2-pole Breakers	60 x 36 x 10 (152 x 92 x 25)

Code	Line Voltage	Heater Load
1	240/120 VAC, Single Phase, 3 Wire	120 VAC
2	208/120 VAC 3-Phase, 4-Wire	120 VAC
3	208/120 VAC 3-Phase, 4-Wire	208 VAC (240 VAC Cable)
4	240/120 VAC Single Phase, 3 Wire	240 VAC

Code	Enclosure Rating
1	NEMA 4 Single Door, Steel Wall-Mount Enclosure
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure (Codes 12 & 20)
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure (Codes 30 & 42)

Code	Branch Circuit Breaker Selection (DO NOT EXCEED MAIN RATING)
1(*)	15 Amp 1-Pole GFI Circuit Breaker for 120 VAC load
2(*)	20 Amp 1-Pole GFI Circuit Breaker for 120 VAC load
3(*)	25 Amp 1-Pole GFI Circuit Breaker for 120 VAC load
4(*)	30 Amp 1-Pole GFI Circuit Breaker for 120 VAC load
5(*)	15 Amp 2-Pole GFI Circuit Breaker for 208/240 VAC load
6(*)	20 Amp 2-Pole GFI Circuit Breaker for 208/240 VAC load
7(*)	25 Amp 2-Pole GFI Circuit Breaker for 208/240 VAC load
8(*)	30 Amp 2-Pole GFI Circuit Breaker for 208/240 VAC load

Code Main Disconnect or Main Circuit Breaker Selection

0	None
Disconnects	
1	100 Amp with 65K Fault Protection (Code 12 & 20 Only)
2	250 Amp with 65K Fault Protection (Code 30 & 42 Only)
Main Circuit Breakers for 240/120V Line Voltage	
A	80 Amp, 2 Pole Circuit Breaker
B	175 Amp, 2 Pole Circuit Breaker
C	250 Amp, 2 Pole Circuit Breaker
Main Circuit Breakers for 208/120V Line Voltage	
F	50 Amp, 3 Pole Circuit Breaker
G	100 Amp, 3 Pole Circuit Breaker
H	150 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- 30 2 1 2(30) 3 5 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)

100 Amp Panel Board	Breaker Rating				225 Panel Board	Breaker Rating			
	Maximum Number of Breakers					Maximum Number of Breakers			
Line Voltage	15 Amp	20 Amp	25 Amp	30 Amp	Line Voltage	15 Amp	20 Amp	25 Amp	30 Amp
Code 1 (1 Pole CB)	16	12	10	8	Code 1 (1 Pole CB)	37	28	22	18
Code 2 (1 Pole CB)	20	18	15	12	Code 2 (1 Pole CB)	42	42	33	28
Code 3 (2 Pole CB)	10	10	8	7	Code 3 (2 Pole CB)	20	20	19	16
Code 4 (2 Pole CB)	8	6	5	4	Code 4 (2 Pole CB)	18	14	11	9