

# P117G/P117LG NEMA IV

# Miniature Pressure Switch

## General Specifications

### Pressure Range

Gauge = 0.8 to 500 PSIG  
Proof = 150% of sensor capacity

### Sensor Element – Capsule

### Set Point Options

For P117G – Factory set, field adjustable, or a combination of both.

For P117LG NEMA IV – Factory set to customer specification, **non-adjustable**.

### Temperature Range

-65°F to +225°F (-54°C to +107°C)  
A set point change of up to 2% of sensor capacity may be anticipated when switch is used either below -10°F or above +125°F.

### Cycling

3H and 5H not to exceed 60 CPM.  
10H, 25H and 50H not to exceed 20 CPM.

### Weight – 3 Oz. (approx.)

Weight varies with electrical interface selection.

## Construction Materials

### Wetted Parts – P117G/P117LG NEMA IV

CAPSULE – 17-7 PH

SEALING COMPOUND – Loctite #271

FITTING – 303 Stainless steel

Standard thread = 1/8-27 NPT male  
Optional threads = 1/4-18 NPT male  
7/16-20 UNF male

**P117**  
**1 3/4" TALL NOM.**  
**+ INTERFACE**  
**MANY INTERFACES**  
**AVAILABLE**



**1 3/32" DIA NOM.**

**P117L NEMA 4**  
**2 9/16" TALL NOM.**



**1 1/8" DIA NOM.**

### Non-Wetted Parts

BODY – 303 Stainless steel  
LOCK RING – Zinc alloy, chromate finish  
SWITCH HOUSING – Zinc alloy, chromate finish  
CAPS & ACCESSORIES – Black valox and brass terminals

### Non-Wetted Parts

BODY – 303 Stainless steel  
SWITCH HOUSING – Zinc alloy, chromate finish  
SLEEVE – Anodized Aluminum  
POTTING – Epoxy  
WIRE – L TYPE INTERFACE  
Standard – supplied #20 AWG Insulated with polyvinyl chloride – 300 volts  
COLOR CODE: Black – Common  
White – N.O.  
Red – N.C.

## Sensor Code and Performance Tables

SENSOR CODE	TABLE A		TABLE B	
	MAX. SYSTEM PRESSURE*	SET POINT REPEATABILITY	SET POINT RANGE	
			DECREASING	INCREASING
PSIG	PSIG	PSIG	PSIG	
3H	30	± 0.6	0.8 - 28.5	1.6 - 30.0
5H	50	± 1.0	2.0 - 48.0	3.0 - 50.0
10H	100	± 2.0	3.0 - 96.5	4.5 - 100.0
25H	250	± 5.0	7.5 - 242.5	9.7 - 250.0
50H	500	± 10.0	15.0 - 485.0	20.0 - 500.0

\*Exceeding sensor capacity may cause shift in set point.

For the reset differential range for the P117G/P117LG consult factory.

CAUTION: Customer media and environment must be compatible with construction materials as outlined above.

