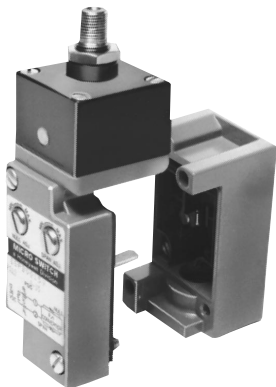


Pressure Sensors

Heavy Duty DC Adjustable, 2-Wire Analog

SSPB Series



FEATURES

- Silicon sensor chip is enclosed in stainless steel welded diaphragm
- Rugged diecast zinc plug-in limit switch style housing
- 2-wire, 4-20 mA output current linearly proportional to pressure
- Sealed to meet NEMA 1, 3, 3R, 4, 6, 6P, 12, 13
- Field adjustable null and span
- Protected against false pulse, transients and industrial noise
- 0 to +50°C operating and compensated temperature
- UL Listed.

SSPB SERIES PERFORMANCE CHARACTERISTICS, 25°C

	Min.	Typ.	Max.	Units
Supply Voltage	12.0	---	36.0	VDC
Hysteresis & Repeatability @ nominal span	---	---	±0.5	% Span
@ max. span comp.	---	---	±1.5	% Span
Temperature Error @ nom. span & max. comp.	---	±6.0	±10.0	% Span
Response Time	---	---	2.0	msec
Weight	414 grams (.91 lb.) Note: w/o receptacle			
Change in Current	4 to 20 mA proportional to pressure			
Null Pressure Setting (4 mA output)	Can be adjusted from 0 to 25% of full pressure range			
Full Pressure Setting (20 mA output)	Can be adjusted from 75 to 100% of full pressure range			

ENVIRONMENTAL SPECIFICATIONS

Storage Temperature	-25° to +85°C (-13° to +185°F)
Operating and Compensated Temperature	0° to 50°C (32° to 122°F)
Sealing	NEMA 1, 3, 3R, 4, 6, 6P, 12, 13*
Media	Limited only to those media which will not attack 316 stainless steel

*** Application Note:** Enclosures are based, in general, on the broad definitions outlined in NEMA standards. Therefore, it will be necessary for the user to determine that a particular enclosure is adequate when exposed to the specific conditions that might exist in intended applications. Except as might otherwise be noted, all references to products relative to NEMA enclosure types are based on MICRO SWITCH evaluation only.

SSPB SERIES ORDER GUIDE, GAGE PRESSURE

Catalog Listing	Nominal Pressure Range psig	Over Pressure Max. psi	Sensitivity (1) Range mA/psi
SSPB0015V	0-15	30	1.07 to 4.27
SSPB0100V	0-100	200	0.16 to 0.64
SSPB0250V	0-250	500	0.064 to 0.256

Mating Receptacle LSZ 4001

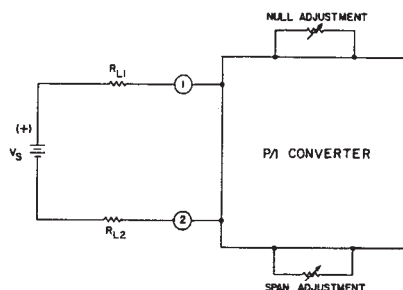
16 mA

(1) NOTE: Sensitivity = $\frac{\text{Upper Pressure Setting} - \text{Lower Pressure Setting}}{\text{Output Current Change}}$

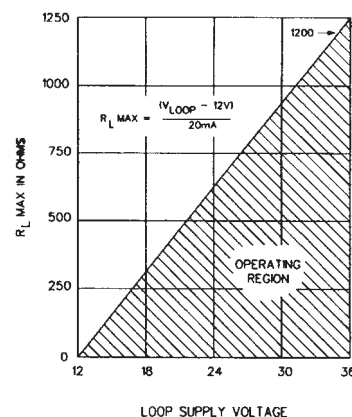
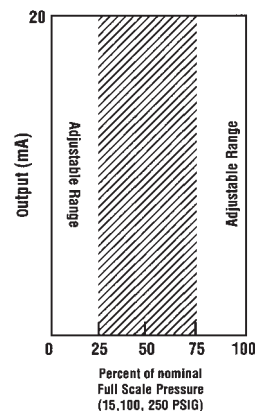
ELECTRICAL CONNECTIONS

An ammeter, resistor (current output generates a voltage drop across the resistor) or any current sensing device is placed in series with a DC voltage source and the pressure sensor for proper operation. The load, represented by R_L , can be placed on either or both sides of the voltage source. Total load resistance must be within operating area. Output and Power LEDs do not require separate wiring.

$$R_{L(\max)} = \frac{V_s - 12 \text{ volts}}{0.020 \text{ Amps}}$$



MAXIMUM EXTERNAL LOAD RESISTANCE VERSUS SUPPLY VOLTAGE



Amplified

MOUNTING DIMENSIONS (for reference only)

