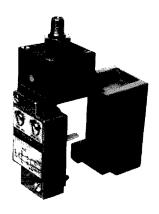
SSPB Series

Heavy Duty DC Adjustable, 2-Wire Analog



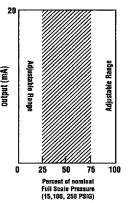
FEATURES

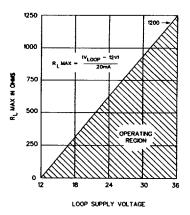
- Silicon sensor chip is enclosed in stainless steel welded diaphragm
- Rugged diecast zinc plug-in limit switch style housing
- 2-wire, 4-20 mA output current linearly proportional to pressure
- Sealed to meet NEMA 1, 3, 3R, 4, 6, 6P, 12, 13
- Field adjustable zero and span
- Field adjustable up to 15% of total range
- 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.	Тур.	Max.	Units
Supply Voltage	12.0		36.0	VDC
Hysteresis & Repeatability				
@ nominal span			±0.5	%Span
@ max. span comp.		***	±1.5	
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		eceptacle	
Change in Current	4 to 20 mA proportional to pressure			
Null Pressure Setting (4 mA output)	0 psia up to 15% of nominal pressure range @full scale pressure			
Full pressure Setting (20 mA output)	25 to 100% of nominal pressure range @ 0 psia Null			range @

MAXIMUM EXTERNAL LOAD RESIST-ANCE VERSUS SUPPLY VOLTAGE





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	Petroleum product, water and alcohol

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

Order Mating Receptacles page 48.

16 mA

(1) NOTE: Sensitivity = $\frac{}{||\mathbf{U}\mathbf{p}||}$

Upper Pressure Setting - Lower Pressure Setting

PA CONVERTER

SPAN ADJUSTMENT

ELECTRICAL CONNECTIONS

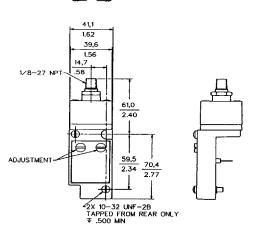
An ammeter, resistor (current output generates a voltage drop across the resistor) or any current sensing device is placed in series with a DC voltage source and the pressure sensor for proper operation. The load, represented by R_L, can be placed on either or both sides of the voltage source. Total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

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

44 Honeywell

MICRO SWITCH Sensing and Control

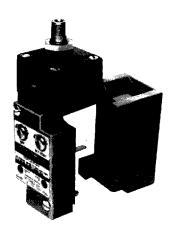
MOUNTING DIMENSIONS (for reference only)



| 4551830 0021175 247 |

For application help: call 1-800-537-6945.

Heavy Duty AC Adjustable Setpoint/2-Wire Digital



FEATURES

- Silicon sensor chip is enclosed in stainless steel welded diaphragm
- Rugged diecast zinc plug-in limit switch style housing
- Field adjustable setpoint and differential
- Sealed to meet NEMA 1, 3, 3R, 4, 6, 6P, 12, 13
- Protected against false pulse, transients, industrial noise and NEMA noise
- −25 to +85°C storage temperature
- 0 to +50°C operating and compensated temperature
- UL Listed

SSPC SERIES PERFORMANCE CHARACTERISTICS, 25°C

	Min.	Тур.	Max.	Units
Supply Voltage	92.0	115	132	VAC
Repeatability				
@ 25°C			±0.5	% of Adjustable range
Comp. temp. range			±3.0	
Response Time Max (no time delay)	On - 20	msec	Off - 10 ms	sec
Rate of Operation			900	per minute
Power Dissipation	0.35 VA excluding load			
Saturation Voltage	9V max with 0.5 Amp load			
Load Current (N.O.)	0.5 Amp max. continuous over full temperature range 2.7 Amp. max. inrush			
Leakage Current (Off state)	2.0 mA RMS, max.			
Protection	False pulse, transients, Industrial noise, NEMA noise			
Weight	414 grams (.91 lb.) Note: w/o receptacle			

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	Petroleum products, water and alcohol

SSPC SERIES ORDER GUIDE, GAGE PRESSURE

Catalog Listing	Nominal Pressure Range psig	Over- Pressure Max. psi	Adjustable Setpoint Range	Differential Min.
SSPC0015V	0-15	30	1.5-15	30% @ 1.5 psi, 10% @ F.S.
SSPC0100V	0-100	200	10-100	10%
SSPC0250V	0-250	500	25-250	10%

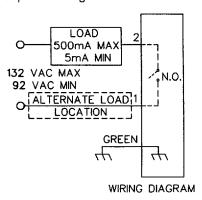
Order mating receptacles page 48.

4551830 0021176 183

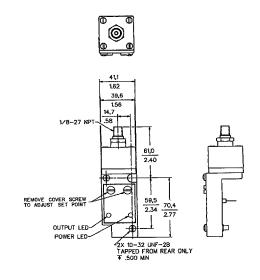
For application help: call 1-800-537-6945.

WIRING DIAGRAM

Output and Power LEDs do not require separate wiring.



MOUNTING DIMENSIONS (for reference only)



Honeywell ● MICRO SWITCH Sensing and Control

^{*}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.

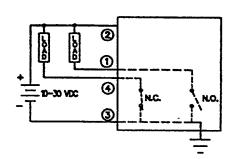
Heavy Duty DC Adjustable Setpoint, 4-Wire Current Sinking



FEATURES

- Silicon sensor chip is enclosed in stainless steel welded diaphragm
- Rugged diecast zinc plug-in limit switch style housing
- Field Adjustable setpoint and differential
- Sealed to meet NEMA 1, 3, 3R, 4, 6, 6P, 12, 13
- Protected against false pulse, transients and industrial noise
- -25 to +85°C storage temperature
- 0 to +50° operating and compensated temperature
- UL Listed

WIRING DIAGRAM



SSPD SERIES PERFORMANCE CHARACTERISTICS, 25°C

Supply Voltage	10 to 30 VDC	
Load Current (N.O. & N.C.)	200 mA Max (NPN)	
Leakage current, N.C. state	10 μA Max	
Voltage Drop, Max	1.25V with 200 mA load	
Response Time, Max	15 Milliseconds	
Protection	Power up protection, transients, industrial noise	
Repeatability (Stability)	±0.5% of Set Points (@25°C) ±3.0% of Set Points (0°C to +50°C)	

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	Petroleum products, water and alcohol

^{*}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.

SSPD SERIES ORDER GUIDE, GAGE PRESSURE

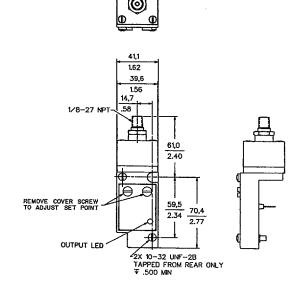
Catalog Listing	Input Pressure Max. psig	Over- Pressure Max. psi	Adjustable Setpoint Range	Differential Min.
SSPD0015V	1.5-15	30	15	30% @ 1.5 psi, 10% @ F.S.
SSPD0100V	100	200	10-100	10%
SSPD0250V	250	500	25-250	10%

Order mating receptacles page 48.

SSPD Series has one bicolor Output LED.

MOUNTING DIMENSIONS

(for reference only)



For application help: call 1-800-537-6945.

■ 4551830 0021177 01T ■

46 Honeywell ● MICRO SWITCH Sensing and Control

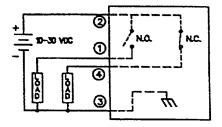
Heavy Duty DC Adjustable Setpoint, 4-Wire Current Sourcing



FEATURES

- Silicon sensor chip is enclosed in stainless steel welded diaphragm
- Rugged diecast zinc plug-in limit switch style housing
- Field Adjustable setpoint and differential
- Sealed to meet NEMA 1, 3, 3R, 4, 6, 6P, 12, 13
- Protected against false pulse, transients and industrial noise
- -25 to +85°C storage temperature
- 0 to +50° operating and compensated temperature
- **UL** Listed

WIRING DIAGRAM



SSPE SERIES PERFORMANCE CHARACTERISTICS, 25°C

Supply Voltage	10 to 30 VDC	
Load Current (N.O. & N.C.)	200 mA Max (sourcing)	
Leakage current, N.C. state	10 μA Max	
Voltage Drop, Max	1.25V with 200 mA load	
Response Time, Max	15 Milliseconds	
Protection	Power up protection, transients, industrial noise	
Repeatability (Stability)	$\pm0.5\%$ of Set Points (@25°C) $\pm3.0\%$ of Set Points (0°C to $+50$ °C)	

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	Petroleum products, water and alcohol

^{*}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.

SSPE SERIES ORDER GUIDE, GAGE PRESSURE

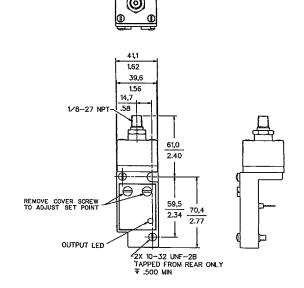
Catalog Listing	Input Pressure Max. psig	Over- Pressure Max. psi	Adjustable Setpoint Range	Differential Min.
SSPE0015V	15	30	1.5-15	30% @ 1.5 psi, 10% @ F.S.
SSPE0100V	100	200	10-100	10%
SSPE0250V	250	500	25-250	10%

Order mating receptacles page 48.

SSPE Series has one bicolor Output LED

MOUNTING DIMENSIONS

(for reference only)



■ 4551830 0021178 T56 **■**

For application help: call 1-800-537-6945.

Honeywell ● MICRO SWITCH Sensing and Control